

Ministry of Energy & Mines
Energy & Minerals Division
Geological Survey Branch

**ASSESSMENT REPORT
TITLE PAGE AND SUMMARY**

TITLE OF REPORT [type of survey(s)] 2007 Geochemical and Geological Report on the Voigtberg Property	TOTAL COST \$506,974

AUTHOR(S) Rory Kutluoglu SIGNATURE(S) _____

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) MX-1-684 YEAR OF WORK 2007

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) 4188875 / January 9, 2008

PROPERTY NAME Voigtberg

CLAIM NAME(S) (on which work was done) 516217-219, 516221, 515585-586, 549986-987

COMMODITIES SOUGHT Au, Cu, Mo

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 104G-146

MINING DIVISION Liard NTS 104G/3W

LATITUDE 57 ° 03 ' _____ " LONGITUDE 131 ° 19 ' _____ " (at centre of work)

OWNER(S)

1) BCGold Corporation 2) _____

MAILING ADDRESS

Suite 1440, 625 Howe Street

Vancouver, BC, V6C 2T6

OPERATOR(S) [who paid for the work]

1) As above 2) _____

MAILING ADDRESS

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Upper Triassic Stuhini Group volcanic and sedimentary rocks intruded by Late Triassic to Early Jurassic monzonite to diorite dykes. Widespread
low-grade Au mineralization is associated with disseminated and fracture-controlled pyrite in Kspar altered (overprinted by sericite-carbonate-
chlorite alteration) Stuhini Group volcanics and monzonite. The best drill intersection in 2007 averaged 0.40 g/tonne Au across a core length of
76.4 metres.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS 19605, 22507, 23117, 23626

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			10,000
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne	DIGHEM EM/magnetics (404 line-km)		122,800
GEOCHEMICAL (number of samples analysed for ...)			
Soil	Au + 35 element ICP (322 soils)		
Silt	Au + 35 element ICP (8 silts)		
Rock	Au + 35 element ICP (69 rocks)		
Other			15,000
DRILLING (total metres; number of holes, size)			
Core	587.8m; 4 DDH; NQ		354,174
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			5,000
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST	\$506,974

BCGold Corporation
2007 GEOCHEMICAL AND GEOLOGICAL
REPORT ON THE VOIGTBERG PROPERTY

Volume I – Text

Located in the Galore Creek Area
Liard Mining Division
NTS 104G/3W
BCGS 104B.094, 104G.003, 104G.004
57° 03' North Latitude
131° 19' West Longitude

-prepared for-

BCGold Corporation
Suite 1440, 625 Howe Street
Vancouver, British Columbia, Canada
V6C 2T6

-prepared by-

Rory Kutluoglu B.Sc..
EQUITY ENGINEERING LTD.
Suite 700, 700 West Pender Street
Vancouver, British Columbia, Canada
V6C 1G8

February 4, 2008



TABLE OF CONTENTS

TABLE OF CONTENTS	2
LIST OF APPENDICES	3
LIST OF TABLES	3
LIST OF FIGURES	3
1.0 SUMMARY	4
2.0 INTRODUCTION	5
3.0 RELIANCE ON OTHER EXPERTS	5
4.0 PROPERTY DESCRIPTION AND LOCATION	5
5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE, PHYSIOGRAPHY	8
6.0 HISTORY	8
6.1 2007 Exploration Program	10
7.0 GEOLOGY	11
7.1 Regional Geology	11
7.2 Property Geology	12
7.2.1 Lithologies	12
7.3 Structure	15
8.0 MINERALIZATION	16
8.1 Gold Zone	16
8.2 North Zone	16
8.3 Moly Zone	17
8.4 Gossan Zone	18
9.0 GEOCHEMISTRY	18
9.1 Silt Geochemistry	18
9.2 Soil Geochemistry	19
10.0 DIAMOND DRILLING	20
10.1 VGT07-08 (Figure 6a):	20
10.2 VGT07-09 (Figure 6b):	20
10.3 VGT07-10 (Figure 6c):	21
10.4 VGT07-11 (Figure 6b):	21
10.5 VGT07-X:	21
11.0 GEOPHYSICS	22
12.0 DISCUSSION AND CONCLUSIONS	23
12.1 2007 Program Highlights	23
12.2 Conclusions	23
13.0 RECOMMENDATIONS	24

LIST OF APPENDICES

Appendix A: Bibliography	
Appendix B: Statement of Expenditures	
Appendix C: Rock Sample Descriptions	
Appendix D: Drill Logs	
Appendix E: Drill Geotechnical Data	
Appendix F: Airborne Geophysical Survey (Fugro)	
Appendix G: Airborne Geophysical Interpretation (J. Klein)	
Appendix H: Quality Control / Quality Assurance	
Appendix I: Compact Disc	
Appendix J: Geologist's Certificate	
Appendix K: Analytical Certificates	
Appendix L: Maps and Sections	

LIST OF TABLES

Table 1: Claim Data.....	5
Table 2: Voigtberg Exploration Programs.....	8
Table 3: Voigtberg Lithologic Units.....	12
Table 4: North Zone Significant Mineralization.....	17
Table 5: Moly Zone Significant Mineralization.....	18
Table 6: 2007 Silt Samples Relative to RGS Data	18
Table 7: 2007 Diamond Drilling Data.....	20
Table 8: Significant 2007 Drill Intersections, Voigtberg Property	21
Table 9: Drill Core Percentiles.....	22
Table 10: Drill Core Sample Correlation Matrix	22

LIST OF FIGURES

Figure 1: Location Map.....	6
Figure 2: Claim Map	7
Figure 3: Regional Geology.....	13
Figure 4: Property Geology	Appendix L
Figure 5a: Property Geology and Sample Locations.....	Appendix L
Figure 5b: Main Zone Geology and Sample Locations	Appendix L
Figure 5c: Northeast Zone Geology and Sample Locations.....	Appendix L
Figure 5d: Property Geology and Soil Geochemistry	Appendix L
Figure 6a: DDH VGT07-08 Cross Section.....	Appendix L
Figure 6b: DDH VGT07-09, 11 Cross Section.....	Appendix L
Figure 6c: DDH VGT07-10 Cross Section.....	Appendix L

1.0 SUMMARY

The Voigtberg property consists of eight contiguous map-selection claims covering approximately 29 km² of mountainous terrain in northwestern British Columbia, 140 km northwest of Stewart and 150 km south of Dease Lake. Access to the property is by helicopter from a seasonal base at Bob Quinn Lake airstrip on Highway 37, approximately 25 kilometres to the east. The claims are held by BCGold Corp, which is earning a 70% interest in the property from Kaminak Gold Corporation.

Prior exploration was carried out on the Voigtberg property from 1984 to 1996 with exploration recommencing in 2006. Early work on the property consisted of regional stream sediment sampling, mapping and prospecting, which led to the discovery of the Gossan Zone. Results of these programs were disappointing and the claims were allowed to lapse. In 1990, they were re-staked as the Voigtberg claims by 344967 B.C. Ltd. Over the next six years a number of small exploration programs were carried out on the property and consisted of grid and reconnaissance soil sampling, prospecting, mapping and 8.9 line-km of IP/resistivity. These programs led to the discovery of low grade Au associated with disseminated pyrite and coincident with a large area of anomalous Au in soil. This area became known as the Gold Zone in subsequent programs. Also during these programs the North Zone (Cu-Mo soil anomaly) and the West Zone chargeability anomaly were discovered. Rock sampling in the Gold Zone area identified a broad area of low grade Au mineralization, but the high assays of previous programs (e.g. 16.1 g/t Au) could not be repeated. In 1996, Hayden Resources Limited drilled three diamond drill holes into the Gold Zone from the same set up, yielding anomalous Au throughout the entire length of all holes. The average grade over 455m of core was 0.263 g/tonne. The 2006 program consisted of an additional 717.09m of drilling in conjunction with the discovery of the Moly Zone, an area measuring 200m x 100m with an average value of 680 ppm Mo in rock samples.

The Voigtberg Property is underlain by Upper Triassic Stuhini Group rocks which have been intruded by Early Jurassic Texas Creek Suite intrusions, Cretaceous to Jurassic diorite dykes and Tertiary basaltic dykes and sills. Four styles of mineralization have been noted on the property: widespread low grade Au associated with disseminated and fracture coated pyrite; fracture coated molybdenite; fracture coated, disseminated and replacement style Zn-Pb; and ENE-trending discontinuous massive pyrite veins. The 2007 program consisted of an airborne EM and magnetic survey, 587.80m of drilling, mapping, prospecting and additional soil sampling. The primary objective of the drill program was to expand on the results from the 2006 program, specifically the 51.15m of 1.03 g/t Au intersected in VGT06-05. Drilling was also designed to test the potential of anomalous soils and the coincident chargeability high and resistivity high in the North Zone. Mapping, prospecting and soil sampling looked to better delineate the geology and anomalous geochemistry of the existing showings and to develop the potential on the newly staked claims in the northeast portion of the property. The drill program consisted of four holes from four setups, for a total of 587.80 metres. The most significant results were in holes VGT07-08 and VGT07-10, which both tested portions of the Gold Zone. VGT07-08 intersected 76.62m of 0.22 g/t Au and 488ppm Cu, while VGT07-10 intersected 76.40m of 0.40 g/t Au with 160 ppm Cu. Both holes intersected predominantly andesite volcanics with narrow monzonitic dykes.

Future work on the property should be aimed at expanding known mineralization at the Gold Zone and evaluating areas of potential Cu and Mo mineralization in areas such as the Moly and Gossan Zones. Diamond drilling should continue within the Gold Zone to define the extent of Au mineralization. An IP/resistivity survey would be useful to investigate the potential for mineralization under the till to the south. Results of the IP survey should be interpreted in conjunction with the airborne anomaly in and south of the Gossan Zone. This could better constrain the orientation of the body which gave an anomalous conductive response zone. Additional prospecting and mapping should continue across the whole property.

2.0 INTRODUCTION

The author directed a geological, geochemical, prospecting and diamond drilling program on the Voigtberg property in August and September 2007 for Equity Engineering Ltd., under contract to BCGold Corp ("BCGold"). Data from this program has been compiled, summarized and interpreted in this report. Additional information for this report was derived from publicly-available assessment reports and government maps and publications. The author's experience with the property consists of the mapping and core logging done during the 2007 program

3.0 RELIANCE ON OTHER EXPERTS

The author did not rely on other experts regarding legal, environmental, political or other such issues.

4.0 PROPERTY DESCRIPTION AND LOCATION

The Voigtberg property lies in the Coast Range Mountains of northwestern British Columbia, approximately 140 km northwest of Stewart and 150 km south of Dease Lake (Figure 1). It lies within the Liard Mining Division, centred at 57° 03' north latitude and 131° 19' west longitude.

The Voigtberg property consists of eight contiguous Mineral Titles Online (MTO) map-selection claims covering 29 km², as summarized in Table 1. The claims do not overlap any pre-existing legacy claims (Figure 2). The claims are held in the name of BCGold Corp, but separate documents indicate that they are held in trust for Kaminak Gold Corporation. Kaminak Gold Corporation has granted BCGold Corp an option to earn a 70% interest in the Voigtberg Property by paying cash, issuing shares and completing a bankable feasibility study.

Table 1: Claim Data

Mineral Tenure	Area (Ha)	Expiry Date
515585	123.008	2011/Sept/14
515586	1264.291	2011/Sept/14
516217	298.712	2011/Sept/14
516218	17.569	2011/Sept/14
516219	333.964	2011/Sept/14
516221	17.579	2011/Sept/14
549986	421.499	2011/Sept/14
549987	421.311	2011/Sept/14
Total	2897.933	

Surface rights over the Voigtberg property are owned by the Province of British Columbia. Neither significant surface disturbance nor any major environmental liabilities were noted during the 2007 exploration program. Exploration permits will be required from the British Columbia Ministry of Energy, Mines and Petroleum Resources prior to carrying out any future exploration programs on the Voigtberg property.



0 75 150 300
kilometres

BCGold Corporation

VOIGTBERG PROPERTY

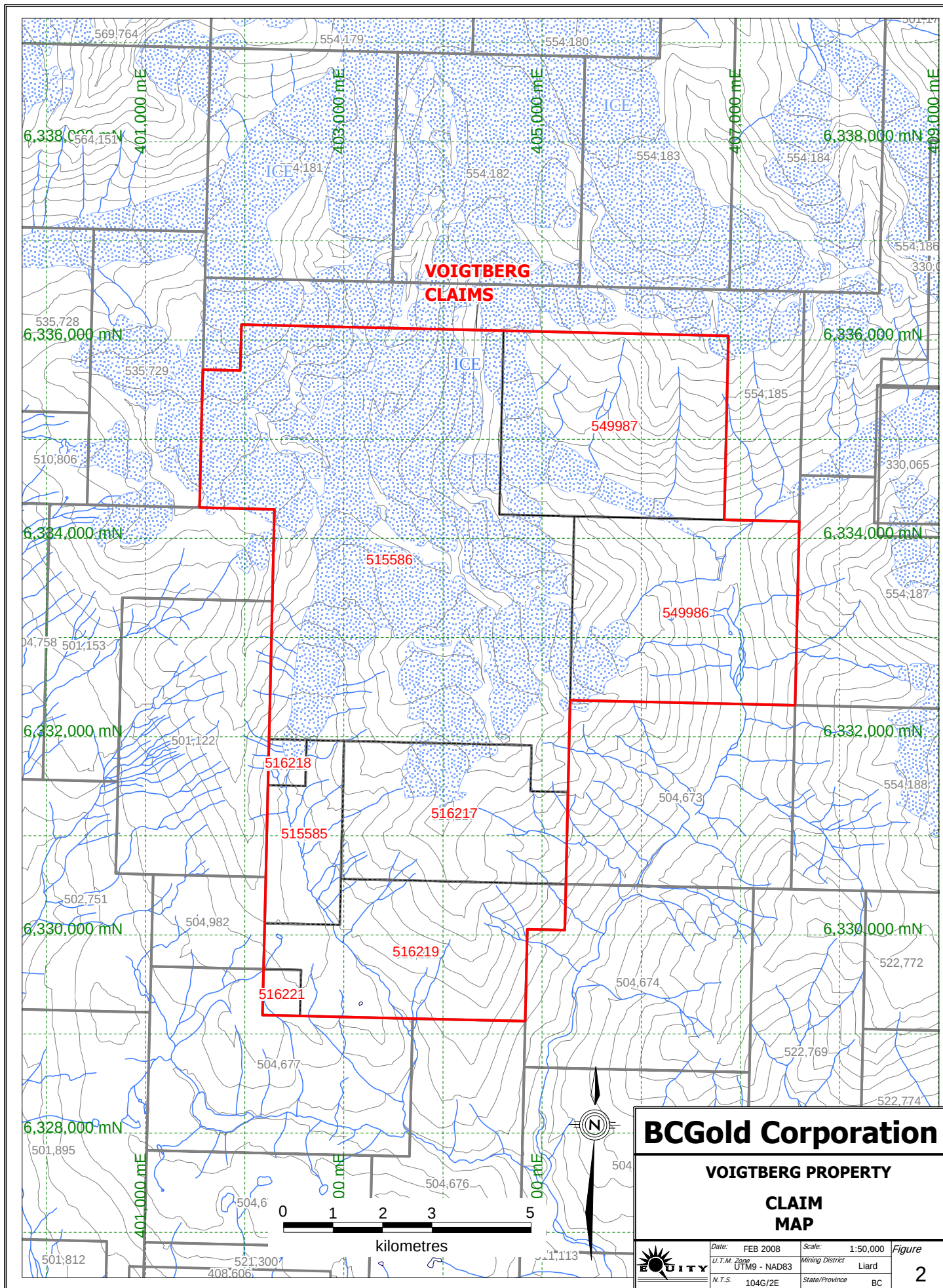
LOCATION
MAP



Date: FEB 2008
U.T.M. Zone: UTM 9 - NAD83
N.T.S.: 104G/2E

Scale: 1:8,000,000
Mining District: LIARD
State/Province: BC

Figure
1



BCGold Corporation

VOIGTBERG PROPERTY

CLAIM MAP



Date:	FEB 2008	Scale:	1:50,000	Figure
U.T.M. Zone	UTM9 - NAD83	Mining District	Liard	
N.T.S.	104G/2E	State/Province	BC	2

Figure 2: Claim Map

5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE, PHYSIOGRAPHY

The Voigtberg property lies in the Coast Range Mountains of northwestern British Columbia, approximately 140 km northwest of Stewart and 150 km south of Dease Lake. Access to the property is by helicopter from seasonal bases at the Bob Quinn Lake airstrip on Highway 37, approximately 25 kilometres to the southeast. NovaGold Resource Inc. has partially constructed an access road to their Galore Creek deposit which passes within five kilometres to the west of the Voigtberg property.

The Voigtberg property covers an unnamed northerly-trending ridge on the southern shoulders of Hankin Peak, a few kilometres north of More Creek, a major tributary of the Iskut River. Topography is rugged, with elevations ranging between 1100 and 2200 metres. Roughly half of the property is overlain by glaciers and permanent snowfields.

Most of the property is above treeline, which lies at about 1200 m, and is covered by alpine vegetation and rock talus. Both summer and winter temperatures are moderate although annual rainfall may exceed 200 cm and several metres of snow commonly fall at higher elevations. The property can be worked from early July until September.

6.0 HISTORY

Table 2 summarizes all known exploration work carried out on the ground currently comprising the Voigtberg property, with an estimate of program cost.

Table 2: Voigtberg Exploration Programs

Program/Zones	Geochemistry	Geophysics	Drilling	Reference	Approx. Value
Lac Minerals (1984)	2 silts, 1 rocks			(Bobyne, 1990)	\$ 5,000
Lac Minerals (1988) Gossan Zone	rocks			(Bobyne, 1990)	\$ 5,000
Lac Minerals (1989) Gossan Zone	6 silts, 3 soils, 25 rocks			(Bobyne, 1990)	\$ 15,000
Skeena (1989) Gossan Zone	1 rock			(Bobyne, 1990)	\$ 5,000
Kingston (1991) Gossan Zone	74 rocks			(Cavey, 1991)	\$ 50,000
344967 B.C. Ltd. (1991) Gossan Zone	N/A			(Baker, 1992)	?
Kingston (1992) Gossan Zone	16 rocks			(Cavey, 1992)	\$ 15,000
Kingston (1993) Gossan, Gold, North	185 soils, 20 rocks	8.9 line-km IP/Res		Smith (1993)	\$ 140,000

Table 2 (cont'd): Voigtberg Exploration Programs

Program/Zones	Geochemistry	Geophysics	Drilling	Reference	Approx. Value
Hayden (1994) Gossan, Gold, North	168 soils, 55 rocks			(Gunning, 1994)	\$ 80,000
Hemlo Gold Mines (1995) Gossan, Gold, North	111 soils, 203 rocks			(Kemp, 1995)	\$ 80,000
Hayden (1996) Gossan, Gold	5 rocks		3 DDH (BTW): 455m (1494'), 152 10ft samples	(Gunning, 1996)	\$ 300,000
Kaminak (2006) Gossan, Gold	19 soils, 126 rocks		4 DDH (NQ) 717.09m (2353'), 505 samples	(Simmons, 2006)	\$ 400,000
BCGold (2007) Gossan, Gold, North	8 silts, 322 soils, 69 rocks	404 line Km airborne EM/Mag	4 DDH (NQ) 587.80m (1928'), 295 samples		\$ 537,393
Totals	16 silts, >950 soils, >526 rocks	8.9 line-km IP/Res	11 DDH: 1759.89m (5775'), 1609 samples		\$1,632,939

The earliest known work on the Voigtberg property was carried out by Lac Minerals Limited in 1984 during a regional exploration program. Kennco took two stream sediment samples, which were not anomalous in any element of interest, but drained an area of gossanous outcrop (Brown, 1982). The claims (then called the Biskut claims) were staked in July, 1988 based on the area of gossanous outcrop. A prospecting program in August, 1988 was carried out by Rein Turna, on behalf of Lac Minerals, but the results of this program are not known.

In 1989, Lac Minerals conducted a mapping and prospecting program, becoming the first workers to examine the area of gossanous outcrop discovered in 1984. Bobyn described the gossan as a highly fractured and altered andesite, containing limonite, pyrite, carbonate and silica. The gossanous zone contained several carbonate-sericite veinlets (up to 1cm wide) containing pyrite and trace galena. Two silt samples draining the area of the gossanous outcrop yielded 290 ppb and 112 ppb Au. Five of the 25 rocks samples collected graded greater than 100 ppb Au with the most significant of these was felsite breccia, containing approximately 10% pyrite, which graded 897 ppb Au (Bobyn, 1990). During the same summer field personal from Skeena Resources Limited, conducting work on the adjoining Arctic/Upper More claim group collected a grab sample from the southern part of the current Voigtberg property which assayed 16.1 g/tonne Au (Baker, 1992; Bobyn, 1990).

The claims lapsed and 344967 B.C. Ltd. re-staked it in 1990 as the Voigtberg property, before optioning it to Kingston Resources Limited in early 1991. In 1991 and 1992, two short mapping, prospecting and rock geochemistry programs focused on the main Gossan Zone. Both programs demonstrated a northeast-trending broad area of low grade gold mineralization in heavily pyrite-carbonate altered andesitic volcanic rocks. Only two of the rocks samples from the 1991 program assayed greater than 200 ppb Au, with

the highest being 1.17 g/tonne Au (Cavey, 1991). The most promising results from the 1992 program came again from the area around the Gossan Zone where four samples assayed greater than 200 ppb Au, the highest of which ran 710 ppb Au and 29.5 ppm Ag (Cavey and Raven, 1992). Perhaps more encouraging was one sample taken approximately 800m to the east of the Gossan Zone that contained 0.42% Cu, in an area obscured by a glacier.

In 1993, Kingston conducted a more comprehensive exploration program consisting of grid soil geochemical sampling, grid mapping and an IP/Resistivity survey targeted at covering the area to the west and north of the Gossan Zone. During this program 9.4 line km of grid was established of which 8.9 km were surveyed. This work outlined an area measuring 300 x 200 m of >300 ppb Au in soil that coincided with a chargeability high which came to surface at the Gold Zone (Smith, 1993). A second area of high chargeability was outlined approximately 400 m west of the previous anomaly. However the second area of chargeable rock coincides with an area of only weakly anomalous soil geochemistry, due to overlying fresh limestone. Additionally, an area covering approximately 800 x 400 m, at the North Zone, of anomalous Cu (>250 ppm) & Mo (>100 ppm) in soil coincident with a chargeability high was identified immediately to the north of the area of anomalous Au soil. Both the soil and chargeability anomaly are open to the north of the grid.

Hayden Resources Limited optioned the Voigtberg property in 1994 and conducted an exploration program consisting of grid mapping and soil geochemical sampling. A total of 4.5 line km was established during this program, with the goal of better constraining the soil geochemical anomalies of the previous year by reducing the sample spacing, establishing infill lines in the area of the anomalous gold in the Gold Zone, and by extending the existing grid to the north. At the Gold Zone a northeast-trending area measuring 300 x 50 m of >1000 ppb Au in soil was established (Gunning, 1994). This zone is contained within a zone of >100 ppb Au covering an area of 1000 x 400 m and open to the northeast. At the North Zone the Cu in soil anomaly established in the previous year, was expanded an additional 200 m to the north and found to be coincident with a >200 ppb Zn in soil anomaly. Grid sampling was terminated 200 m north of the previous grid due to glaciers. One rock sample from the Gold Zone assayed 960 ppb Au, 62.21 g/tonne Ag, 0.9% Zn and 1.6% Pb.

Hemlo Gold Mines Corporation optioned the Voigtberg property from Hayden in 1995 and conducted an exploration program consisting of grid mapping and soil geochemical sampling. The purpose of the program was to further define and locate the source of the Au in soil anomaly identified at the Gold Zone and to locate the source of the 16.1 g/tonne sample reported by Bobyn (Bobyn). An outcrop to the north of the soil anomaly at the Gold Zone was thought to be the source of the anomalous Au in soil geochemistry (Kemp, 1995). Of 24 rock samples taken, 22 were anomalous in Au, ranging from 300 ppb to 1.43 g/tonne.

In 1996, Hayden Resources Limited conducted a diamond drilling program totalling 455 m in three drill holes from one setup. The drill site was located near the north end of the Au in soil anomaly at the Gold Zone and was drilled away from the anomalous area. Every sample taken from the drill core was anomalous in Au and the core averaged 0.263 g/tonne Au over the entire 455 m (Gunning, 1996). DDH 96-3 terminated in mineralization, with the last sample assaying 2.01 g/tonne Au over 2.45 m.

The 2006 exploration on the Voigtberg property in 2006 was executed by Equity Engineering Ltd. under contract to Kaminak Gold Corporation consisting of geological mapping, prospecting, soil sampling, channel sampling and diamond drilling. Work was focused on the Gold and Moly Zones, with mapping throughout the property as time permitted. This program resulted in the discovery of the Moly Zone, a 200 x 100 metres surface showing with all surface samples averaging 680 ppm Mo and yielded up to 0.746% Mo. Drilling intersected 51.15m of 1.05 g/t Au in VGT06-05 in the Gold Zone.

6.1 2007 Exploration Program

The 2007 exploration program on the Voigtberg property consisted of mapping, prospecting, soil sampling, and diamond drilling. The project commenced with mobilization of a fly camp situated in the Moly Zone, which was used as a base for the fieldwork and logging/sampling component of the program. With the required preparation for the mobilization of a diamond drill to the property, 587.80m of drilling was completed in four drill holes from four sites. Apex Diamond Drilling of Smithers, British Columbia conducted the drilling

using a hydraulic flyable drill and NQ-sized tools. Drill core was logged, sawn and sampled (Appendices D and E) on site. Down-hole surveys were conducted by acid tests in the middle and near the bottom of each hole. Every 10th sample was quartered and re-sampled as part of the QA/QC program (Appendix H) and standards and blanks were inserted, alternating every 30th. Core was cross-stacked near drill site VGT06-06, which was also used as a staging area, at approximately 403429 mE; 6331714 mN.

The existing soil grid was extended as far north as possible, between the two lobes of the Matthew glacier. The lines maintained the previous grid orientation of 110°; 322 soil samples were taken at 50-metre intervals on lines run with a hip-chain, clinometer and compass and GPS. Prospecting and geological mapping were concentrated around the anomalous zones established by previous exploration programs, with several additional days of reconnaissance scale mapping and prospecting carried out over the property.

Rock samples were collected from altered and mineralized boulders and outcrops. Sites of rock and silt samples were marked with pink and blue flagging tape and an aluminium tag. Rock sample descriptions are attached in Appendix C. Soil sampling sites were marked with orange and blue flagging tape and a weather- and fade-proof Tyvex tag.

Soil, rock and drill core samples were analyzed by ALS Chemex Labs of North Vancouver for Au (fire assay) and 35-elements by aqua regia acid digestions and ICPAES, with several soil samples being processed 51 elements aqua regia ICPMS. Laboratory certificates are attached in Appendix K. Pulp assays were carried out for high geochemical values of Au, Ag, Pb, or Zn; the assays were used for plotting and calculations. The procedures, results and conclusions of the sampling QA/QC program are summarized in Appendix H.

A 404 line kilometres airborne magnetics and electromagnetic (DIGHEM) survey was flown over the majority of the property (Appendix F). The northwestern corner, which is covered by the Matthew Glacier, was not flown. The data was reviewed both from a QA/QC perspective as well as a final interpretation by Jan Klein (Appendix G).

A magnetic declination of 21°50'E was used for all compass measurements. All maps and UTM coordinates are referenced to the 1983 North American Datum (NAD-83).

7.0 GEOLOGY

7.1 Regional Geology

The regional geology surrounding the Voigtberg claims consists of mid-Paleozoic and Mesozoic island arc successions which are overlapped to the east by clastic sediments of the Bowser Basin (Figure 3). Regional mapping has been carried out at a scale of 1:50,000 by (1992a, b, 1990a, b) of the BCGS and by (Read, 1989) of the GSC. Recent mapping has been done in the Voigtberg area by the B.C. Geological Survey (Alldrick et al., 2005).

The Paleozoic Stikine Assemblage in the vicinity of the Voigtberg claims comprises variably foliated mafic to intermediate volcanic rocks, chert and fine clastic sedimentary rocks. These have been intruded by the Late Devonian to Early Mississippian More Creek and Forrest Kerr composite batholiths, with phases ranging from granite to diorite. The Paleozoic rocks lie entirely on the western side of the Forrest Kerr Fault, with Mesozoic rocks exposed to the east. The Stikine Assemblage is unconformably overlain by island arc volcanic and sedimentary rocks of the Upper Triassic Stuhini Group. At the base of the Stuhini Group is a thick package of fine-grained volcanoclastic and sedimentary rocks, dominated by volcanoclastics, arenite and interbedded siltstone and argillite. These units inter-finger with overlying massive green tuff.

The Early to Middle Jurassic Hazelton Group unconformably overlies the Stuhini Group, and comprises five regional units (MacDonald, 1996). A basal coarse clastic unit is a few tens or hundreds of metres thick, overlying the Stuhini Group along a disconformity or angular unconformity. It is conformably overlain by a sequence of andesitic to dacitic volcanics, characterized by extensive variations in thickness and facies. The intermediate volcanic and volcanoclastic strata are locally overlain by regionally discontinuous

felsic calc-alkaline volcanic flows and tuffs. An overlying sedimentary unit is distinguished from the basal unit by the absence of the granitoid-clast conglomerate and by clasts derived from the underlying intermediate volcanic packages. The Upper Sequence of the Hazelton Group is dominantly a bimodal tholeiitic volcanic assemblage with lesser tuffaceous, calcareous and argillaceous rocks, thought to represent intra-arc rifting.

Middle to Upper Jurassic Bowser Lake Group marine and terrestrial mudstones, sandstones and conglomerates conformably overlie the Hazelton Group. These basinal clastics lack volcanic components and contain clasts of rock types from adjacent terranes, indicating a change in the local and regional tectonic setting (Roth, 1999).

A belt of Early Jurassic Texas Creek calcalkaline, hornblende granodiorite and quartz monzonite to alkaline, potassium feldspar megacrystic monzogranite plutons trends northwest from Stewart to the Scud River area. (Logan, 1998) includes a northeast-trending monzonite plug on the Voigtberg property and a monzonite to syenite stock immediately west of the Voigtberg property with the Texas Creek suite. Throughout the region, a number of Cu-Au porphyry prospects (e.g. Kerr, Bronson Slope) and precious metal vein deposits (Silbak Premier, Snip and Brucejack) are related to Texas Creek intrusions.

7.2 Property Geology

The Voigtberg property geology is summarized in Figure 4, which has been compiled from (Alldrick et al., 2004; Anderson, 1993; Gunning, 1994; Kemp, 1995; Logan, 1997). The Voigtberg Property covers an area of Triassic accreted marine sedimentary and volcanic rocks of the Stuhini Group, which have been intruded by at least two generations of feldspar porphyry dykes and stocks of unknown ages. Only very limited detailed geological mapping has taken place on the Voigtberg property, mainly confined to the area where the soil sampling grid was established in the 1990's. As a consequence, the stratigraphic and intrusive age relationships between the rocks units are very poorly understood at a property scale.

7.2.1 Lithologies

Table 3 summarizes the characteristics of rock units on the Voigtberg property which are discussed below.

Table 3: Voigtberg Lithologic Units

TERTIARY

TIN – INTRUSIVE DYKES AND SILLS

TIN₁ Basalt: fine-grained, aphanitic, dark green-grey; typically narrow (<3m wide) dykes; rare fine grained hornblende phenocrysts

CRETACEOUS TO JURASSIC

JKIN – INTRUSIVE DYKES, SILLS AND STOCKS

JKIN₁ Diorite to monzonite: plagioclase and hornblende porphyritic, up to 40% sericite altered anhedral sub-rounded plagioclase, minor biotite phenocrysts; fine-grained brown matrix

LATE TRIASSIC OR EARLY JURASSIC

MJ – MONZONITE TO SYENITE

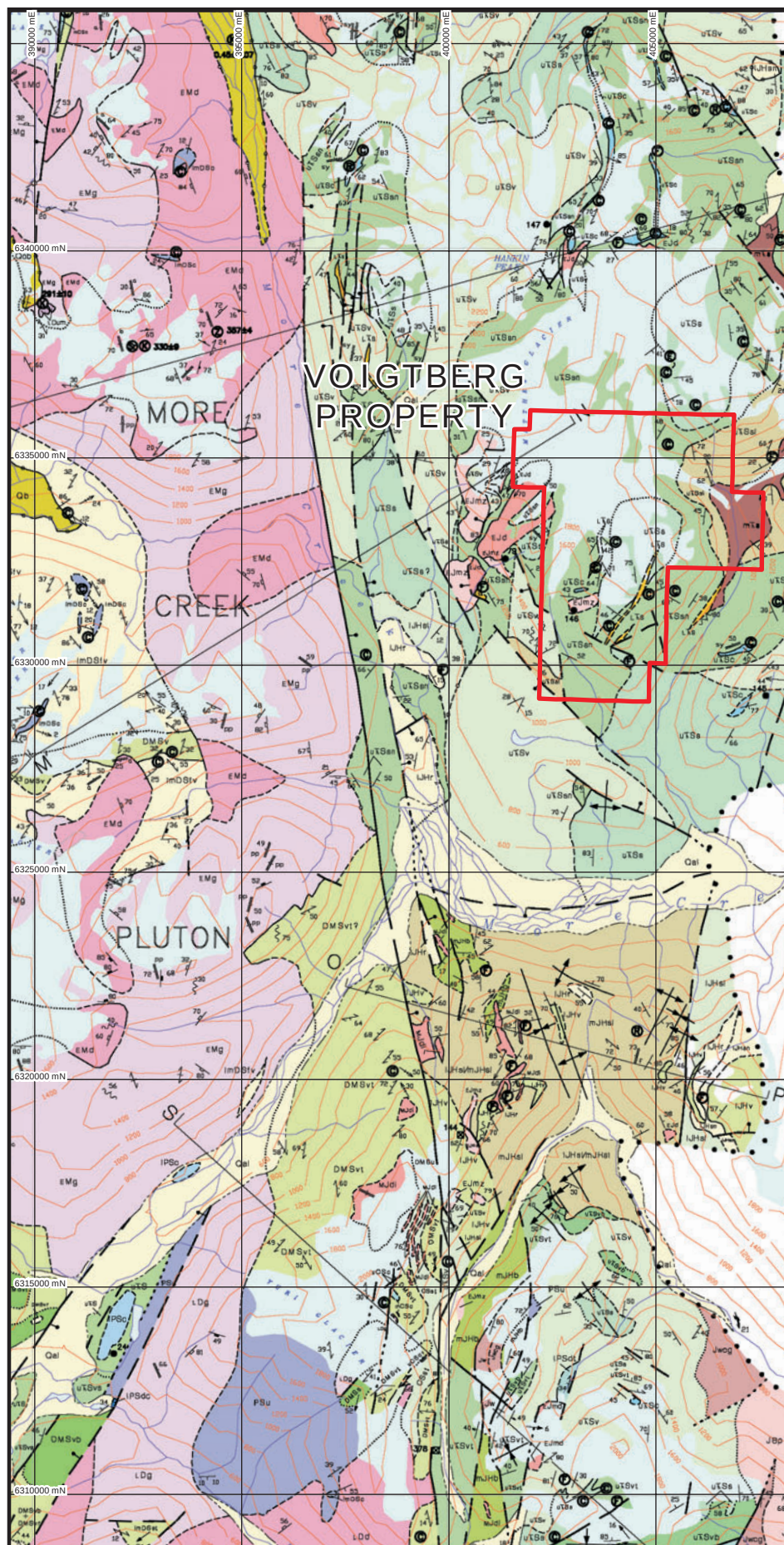
MJmz Monzonite to Syenite: coarse-grained, K-feldspar-hornblende porphyry, K-feldspar megacrystic containing euhedral 1 cm x 5 mm to megacrystic tabular (3 cm x 6cm) feldspar crystals; dark grey-green fine-grained matrix containing k-feldspar and plagioclase

UPPER TRIASSIC Stuhini Group

uTMV – MAFIC TO FELSIC VOLCANIC ROCK

uTMV₁ Andesitic tuff: dark grey-green; well bedded; fine-grained; crystal-rich; contains up to 30% crystal components mainly of plagioclase hornblende and biotite; rare lithic fragments





LEGEND

Layered Rocks

QUATERNARY

Qal Till and alluvium

JURASSIC

Bowser Lake Group

JBp Greywacke, shale and sandstone

Hazleton Group

Jw Siliceous siltstone

Jwgc Polyolithic conglomerate

mJHsl Siltstone, sandstone, crystal tuff

mJHb Pillow basalt, breccia and tuff

IJHv Andesite and dacite

IJHr Rhyolite

UPPER TRIASSIC

Stuhini Group

uTS Undifferentiated volcanics and sediments

uTSvt Lapilli and crystal tuff

uTSvb Plagioclase-phyric basalt flows

uTSv Tuff and epiclastics

uTSs Volcaniclastic sandstone

uTSsc Limestone

uTSsn Sandstone, conglomerate and siltstone

MIDDLE TRIASSIC

mTs Shale, sandstone and siltstone

PALEOZOIC

Stikine Assemblage

Psu Undifferentiated foliated volcanics and sediments

IPSc Fossiliferous carbonate

IPsdt Intermediate siliceous tuff and sediments

CSst Siltstone, argillite and phyllite/tuff

uCSc Dolomitic limestone

mCSc Bioclastic limestone

DMSs Undifferentiated foliated sediments

DMSvt Siliceous ash tuff and mafic tuff

ImDSc Marble and limestone

Intrusive Rocks

JURASSIC

mJdi Diorite, pyroxene gabbro

eJd Augite-plagioclase diorite and gabbro

eJmz Monzonite

MISSISSIPPIAN

eMd Hornblende diorite and quartz monzonite

eMg Biotite granite

LATE DEVONIAN

IDd Hornblende diorite and quartz diorite

Adapted from Logan et al (1997).

4 kilometres

BCGold Corporation

VOIGTBERG PROPERTY

REGIONAL
GEOLOGY



Date:	FEB 2008	Scale:	as shown	Figure
U.T.M. Zone	UTM 9 - NAD83	Mining District	LIARD	3
N.T.S.	104G/2E	State/Province	BC	

- uTMV₂ Massive andesite flows: medium to dark grey-green, euhedral plagioclase phenocrysts (up to 3mm long); minor subhedral biotite crystals; rare aphyric flows; local oblate pillow structures
- uTMV₃ Dacite lapilli tuff: light grey-dark green, contains up to 15% fine lapilli sized fragments of fine grained aphanitic andesite; up to 15% euhedral quartz crystal fragments up to 3mm wide
- uTMV₄ Massive dacite flows: dark grey-green, flow foliations variably developed; contains 5-10% euhedral quartz phenocrysts; rarely feldspar phyric; local spheriolites
- uTMV₅ Rhyolitic flows: light grey-green, well developed flow foliations; commonly aphanitic with rare K-feldspar and quartz phenocrysts; local spheriolites; often associated with minor rhyolitic ash fall units;

uTMS – MARINE SEDIMENTARY ROCK

- uTMS₁ Calcareous sandstone and siltstone: green to brown medium- to coarse-grained; lacks well developed bedding
- uTMS₂ Calcareous conglomerate: polymictic; clast supported; rounded to subrounded pebble to boulder sized clasts; contains mainly sedimentary clasts with lesser volcanic clasts
- uTMS₃ Pebbly siltstone: green to brown siltstone containing auspicious pebble sized fragments of an unknown origin
- uTMS₄ Limestone: light grey and buff; well preserved; fossiliferous; local recrystallization and marble development associated with monzonitic intrusions
- uTMS₅ Shale: very dark grey-green to black; well laminated; very fine grained; often interlayered with fine-grain sandstone units; graded bedding is common

Most of the northern and central parts of the claims are covered by glaciers (Figure 4). During this exploration program additional mapping took place in the grid area to further elaborate on old mapping, in addition to reconnaissance scale mapping on the rest of the property. In the northern claims access to outcrops is very difficult due to extreme topography and glacial cover.

The southeastern parts of the claims are dominated by relatively unaltered and unmineralised clastic sedimentary rocks, limestone and lesser mafic volcanic rocks, which have been intruded by K-feldspar megacrystic intrusive dykes and equigranular fine grained biotite bearing diorite to monzodiorite dykes. However, alteration and mineralization increase in intensity down elevation, to the south (Figure 4). The increased alteration may be linked to an increase in K-feldspar megacrystic intrusions. Exposure of outcrop becomes limited as elevation decreases moving to the south. The northern part of the claims are dominated by ice fields and craggy peaks, of which some are still not accessible by helicopter or by walking, due to dangerous ice conditions. Outcrops in the northern claims are dominated by mafic volcanic and intrusive rocks in the west and fine grained clastic sedimentary rocks and intrusive rocks (mainly diorite) in the east. Interpretation of relationships between the units in the northern portions of the property is limited by accessibility and exposure.

The southern part of the Voigtberg claim block comprises Stuhini Group mafic volcanic rocks and marine sedimentary rocks and limestone (Figure 4). These rocks trend north to north-easterly and dip moderately to shallowly to the north-west and south-east. The central portion of the grid is dominated by at least two generations of porphyritic intrusions and as many as four potentially related porphyritic intrusions. The main intrusion in the Gossan Zone was previously grouped into the Early Jurassic Texas Creek Suite of intrusive rocks by Alldrick et al (Alldrick et al., 2005). Some of the volcanic units intercepted on the property in both 2006 and 2007 contain what had initially been logged as “quartz eyes”, but which actually appear to be pseudoleucite. The “quartz eyes” were inspected by NovaGold geologists, who established them to be pseudoleucite in specimens examined (Morris, 2007). Their interpretation is based on the crystal shape of these samples when compared with petrographic work performed on comparable rocks in the Galore Creek deposit. This is suggestive of a deep sourced, silica poor magmatic source, which would have cooled rapidly (Logan, 1992b). The areas around these intrusions are commonly highly gossanous and the high degree of propylitic alteration in these areas has destroyed much of the original rock textures. With this additional information it is possible that these previously interpreted Texas Creek Suite intrusions may in fact belong to the Late Triassic Copper Mountain (Galore Creek) Suite, and indicate a Late Triassic volcanic centre similar

to Galore Creek. These dykes are distinct on the property, in that they contain conspicuous large tabular orthoclase phenocrysts; the other monzonite on the property, in the eastern central portion of the property is less altered, with phenocrysts of average size. Previously these intrusions were mapped as small ovoid shaped, stock-like bodies. Mapping during this exploration program has shown that these intrusions occur as several north-northeasterly trending dykes (up to 100 m wide) which pinch and swell along strike, often pinching out over several tens of meters. Mineralization and alteration are spatially associated with these dykes, though the country rocks (Stuhini Group volcanic rocks) are generally better mineralized. The area is also intruded by Early Jurassic or younger biotite-bearing, plagioclase-hornblende porphyritic diorite to monzonite dykes, which trend north-northeasterly and cross cut the feldspar megacrystic monzonite intrusions. Rare north-trending and steeply dipping aphanitic unaltered basaltic dykes cross cut all other rocks units throughout the property and are likely equivalent to several Tertiary or older basaltic dykes mapped by Logan et al. (2000).

The 2007 mapping on the property was focused to infill on previous work, and cover the new claims on the northeastern edge of the property. In the northeast, property scale mapping confirmed the regional interpretation of the contact between the volcanics and sedimentary packages of similar age groups. The units mapped in this portion of the property consisted of sandstones (siltstones), limestones and pebble conglomerates in the south eastern portion of the property with some minor diorite dykes..

This year's mapping covered the new claims, the North Zone, the western edges of the Gold Zone and Gossan Zone, and ground in the southernmost portions of the property. Moving east from the Moly/Gossan Zone, across the ice field, there are monzonite dykes cutting andesite volcanics. These yielded anomalous molybdenum values in grab sample, but appear to be localized to the area sampled. Younger, less altered, weakly chloritised plagioclase-phyric monzonite and diorite units, with patchy carbonate veinlets, are interlayered with siltstone and shales within the remainder of the accessed outcrop in this area. The eastern portion of the property essentially consists of this siltstone to mudstone unit, with lesser shale and a minor limestone component cut by dykes of the younger intrusives. In summary, the eastern and southern portions of the property are dominated by siltstone with weak chloritisation and weak localized carbonate alteration. The north eastern portion of the property is intruded by relatively fresh diorite and related monzonite (JKIN₁), while its western portion is dominated by interlayered dacite and andesite flows and lapilli tuff units intruded by small feldspar megacrystic dykes.

7.3 Structure

A major northwesterly-trending structure has been inferred for at least six kilometres along Voigtberg Creek, marked by a prominent lineament visible at surface. This structure juxtaposes Stuhini Group rocks dominated by clastic sedimentary rocks to the northeast and Stuhini Group rocks dominated by submarine mafic volcanic rocks to the southwest. Lesser northeasterly trending faults, such as those outcropping in Gossan Creek, may have acted as pathways along which Jurassic and later intrusions were emplaced, as seen by their northeasterly trends. These lineaments have been corroborated by the geophysical data and have been identified to be running perpendicular or oblique to this main inferred northwesterly trending structure, which may be associated with the Forrest-Kerr fault structure. The Forrest-Kerr is a zone of fault splays over 1000m width, located 2.5km west of the Voigtberg Creek fault.

Stuhini Group volcanic and sedimentary rocks generally strike northeasterly and are moderately dipping. These units are open to closely folded and shallowly plunging to the north. There are at least two dominant sets of pre-mineralization fractures which are associated with higher concentrations of sulphides, particularly pyrite in the Gold zone. These sets are steeply dipping, trending 045° and 300°, and are present in higher abundance in Stuhini Group rocks adjacent to early Jurassic intrusive rocks (Figure 4). These fractures are also present in mineralized intrusive rocks, suggesting that mineralization is syn- or post-intrusion emplacement. The 2007 drilling and mapping indicates that the general trend to the geology is consistent with a NE to NNE orientation on the Voigtberg property within the central portion of the property. The limited access and mapping in the NE portion of the property does not clearly indicate that this is an absolute trend in this portion of the property and shows units to be more ENE and steeply dipping, suggestive of regional folding.

8.0 MINERALIZATION

Gold bearing mineralization and alteration are persistent throughout the whole soil geochemical grid. Mineralization and alteration are spatially related to orthoclase megacrystic monzonite. While many rock units host mineralization in the zones, Triassic Stuhini Group rocks are better mineralized and appear to have better accepted mineralization than other units. Additionally, with respect to gold, dacitic lapilli tuffs, dacitic flows and massive andesite units appear to be best mineralized. South of the Gossan Zone a thick (up to 10 m wide) unaltered limestone unit completely resisted mineralization and acted as buffer to hydrothermal fluids. Fracture controlled quartz veins containing pyrite with trace amounts of chalcopyrite, molybdenite, sphalerite, galena and tetrahedrite have been noted throughout the grid. Limited amounts of mapping and rock sampling in the North Zone have indicated the presence of slightly elevated Cu, within an area of anomalous Cu and Mo in soil. In this area Kemp (1995) describes northwest trending shears controlling fracture coatings and disseminations of malachite, azurite, chalcopyrite and molybdenite, which are spatially associated with feldspar porphyry dykes. Overall the mineralized zones of the North, Gold, Moly and Gossan zones comprise an area of 2500 x 1200 m of continuously mineralized volcanic and intrusive rocks containing low grade disseminated Au and lesser Cu.

8.1 Gold Zone

The Gold Zone covers a northeast elongated 400 x 650 m area that is coincident with a >300 ppb Au in soil anomaly and a chargeability high (Figure 5b). The Gold Zone is bound to the west by glacial cover, to the southeast by a zone of argillically altered intrusive rock (Gossan Zone) and to the southwest by an area of fresh limestone cover. The Zone is comprised of sericite, carbonate, chlorite altered andesite and dacite lapilli tuff with disseminated and fracture coated pyrite. Early K-feldspar alteration has been overprinted by a later and lower temperature alteration assemblage. Extensive talus cover limits mapping and interpretation of mineralization and alteration in this zone. The area contains several narrow NNE-trending K-feldspar megacrystic dykes. These dykes, while mineralized, consistently assay lower than the surrounding country rocks and appear to act as a conduit path significantly more than a mineralization site. These dykes likely provided porosity and permeability by providing fracturing of the country rocks, in addition to its contacts serving as fluid pathways for hydrothermal fluids. Gold values in this area are typically >50 ppb with this year's program only recovering drill core from within the Gold Zone. The most encouraging result from this years drilling came from VGT07-10 which intersected 0.40 g/t Au over 76.40 metres. A similar intersection, further west within the zone, was intersected in VGT07-08 with 76.62m containing 0.22 g/t Au. Silver and base metals tend to be only slightly anomalous in this area. Molybdenum is slightly anomalous in this area, generally assaying <50 ppm, however very local soil samples range up to 580 ppm Mo. Pyrite occurs both as disseminations and as fracture coatings, with higher concentrations of pyrite occurring where fractures are most intense, indicating that the 300° and 045° fractures sets may play an important role in gold concentration and distribution in the system. More importantly, pyrite mineralization is associated with low temperature sericite, carbonate, chlorite alteration assemblages, indicating that the style of mineralization present at the Gold Zone is distal from the source of the hydrothermal fluids. Additionally, As and Hg tend to be fairly low and somewhat sporadic in this area, but are generally slightly elevated compared to other mineralized areas on the property. The style of mineralization at the Gold Zone is thought to represent a Au-pyrite halo adjacent to a porphyry Au-Cu-Mo style of mineralization, which could potentially lie to the south of these zones. The trend in mineralization between VGT06-05 and VGT07-10 suggest that additional drilling to the west may need to be deeper while the failed step-out hole east of VGT06-05 may intersect mineralization at a shallower depth. Also it appears that mineralization in both VGT06-05 and VGT07-10 mimic the contact area between the dacite unit and the andesite, which may be a constraint on mineralization in the gold zone.

8.2 North Zone

The North Zone covers a north-south elongated 900 x 600 m area that is coincident with a >100ppb Au >100 ppm Mo and >250 ppm Cu in soil anomaly and a chargeability high (Figure 5b). The area is bound to the north, east and west by glacial cover, to the south by a zone of propylitically altered andesitic volcanic rocks. The North Zone has extensive talus cover and extreme topography making exploration difficult in this

area. From the limited amount of work done in the North Zone, it appears similar in terms of alteration and mineralization style to the Gold Zone, aside from northwest trending shear-hosted Cu-sulphides. However, the area has distinct soil geochemistry. Similar to the Gold Zone, Au in soil is consistently greater than 100 ppb through the whole zone but is coincident with increases in Cu, Mo and to some extent Ag. Mapping and prospecting showed that the area is largely underlain by the feldspar megacrystic monzonite, with minor diorite dyking also present on the northeast edge of the zone. These rocks have intruded into a series of massive andesitic flows and lapilli tuffs and smaller intervals of dacite flows and lapilli tuffs. There are also minor limestone units that have been noted throughout the property, but rarely seen in the North Zone. One of these blocks is the site of sample 200994, which appears to be a banded limestone in a very small outcrop. The bands in the limestone (marble?) contain fine-grained pyrite and very fine-grained black sphalerite. Mineralization and alteration were limited to narrow NNE-trending structures which consisted of pyritic veins, fracture coatings and disseminations within sericite-carbonate and lesser K-feldspar altered andesitic rocks. Over 40 grab and float samples have been taken in and immediately surrounding the North Zone, in conjunction with a single drill hole (VGT07-09) in the southern part of the zone. The table below contains the anomalous samples from this year's surface program. The samples containing anomalous gold or copper also appear to contain anomalous molybdenum, lead or zinc values, similar to a float sample in the Moly Zone from the 2006 program. Two float samples taken in the Moly Zone area yielded 1.78 g/t Au & 0.247% Cu and 135 ppb Au & 0.49% Cu (Table 5). These samples were taken adjacent to the toe of a glacier from rounded to subrounded boulders containing disseminated pyrite and chalcopyrite. These boulders probably represent mineralization under the glacier further up valley in the vicinity of the eastern edge of the North Zone soil anomaly.

Table 4: North Zone Significant Mineralization

Sample Number	Type	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Zn (ppm)
200972	Grab	50	0.8	86	178	<1	22	115	89
200991	Grab	57	<0.2	50	2330	<1	127	655	40
200992	Grab	28	2.2	44	2590	<1	170	375	59
200993	Grab	251	0.9	132	254	<1	51	47	30
200994	Grab	600	46.2	236	266	56	77	1880	19000
200967	Grab	193	0.6	24	85	<1	11	15	8
202856	Grab	152	1.6	143	154	<1	120	65	15
202859	Grab	288	<0.2	349	78	<1	31	851	142

All samples taken in 2007

8.3 Moly Zone

The Moly Zone covers an area of 200 x 100 m and consists of K-feldspar-sericite-(±biotite) altered flow banded dacite, which has been intruded by several narrow NE-trending orthoclase megacrystic monzonite dykes (Figure 5b). Within this zone is an area of molybdenite mineralization covering a surface area of 60 x 20 m which is covered by glacial ice to the northeast, where the mineralization remains open. Mineralization consists mainly of fracture coated and disseminated very fine-grained molybdenite with lesser sphalerite, chalcopyrite and galena. The sulphide minerals are concentrated along fractures and also along flow foliation surfaces within dacitic units. As is the case at the Gold Zone, K-feldspar megacrystic dykes are not as well mineralized as the surrounding Stuhini Group volcanic rocks. No additional work was carried out on the Moly Zone this year, but mapping and prospecting to the east produced two samples with significant molybdenum mineralization, as listed in Table 5 below. The geology in the area of the samples is comparable to the Moly Zone and may represent an extension of the zone, with substantial ice and till cover between the new samples and the Moly Zone, making it difficult to know the true relationship between these new samples and the existing zone. Additional mapping directly to the east may give more insight, as the mapping immediately north of these new samples contains a presumed younger, less altered, plagioclase and hornblende porphyritic monzonite to diorite with average sized phenocrysts of 1 to 5 millimetre.

Table 5: Moly Zone Significant Mineralization

Sample Number	Type	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Zn (ppm)
200952	Grab	15	<0.2	19	183	<1	120	12	8
200953	Grab	24	0.3	62	16	<1	6010	16	9
200954	Grab	14	0.5	32	93	2	6590	20	13

All samples taken in 2007

8.4 Gossan Zone

The Gossan Zone covers an elongated 800 x 600 m area within which a prominent limonitic gossan extends for at least 300 m. The area immediately north of the Gossan Zone is dominated by fresh limestone, which masks the underlying alteration and mineralization. The areas to the south and east are dominated by K-feldspar-biotite-dickite altered rhyolite and dacitic flows of the Stuhini Group and several K-feldspar megacrystic monzonite intrusions. Mapping in the western portion of the anomaly is severely limited by glacial till cover and alpine grasses and shrubs. Local vuggy textures were noted while mapping in this area. Within the gossanous area several narrow (maximum thickness of 1.5 m), ~260°-trending, moderately north dipping, discontinuous, pinching and swelling massive sulphide veins are present. These veins are comprised mainly of pyrite with lesser sphalerite and rare galena and chalcopyrite. Given the veins' orientation, spatial relationship to other known mineralization styles, associated alteration assemblages and polymetallic geochemistry these veins may represent polymetallic veins which developed in a lithocap environment or peripheral to porphyry Cu-Mo style mineralization, possibly in a more distal environment or simply a smaller pulse.

9.0 GEOCHEMISTRY

9.1 Silt Geochemistry

Since 1988, eight silt samples have been reported from across the Voigtberg property. This year an additional 8 were taken along various traverse routes throughout the property. These samples are compared in Table 6 with the 1218 regional silt samples taken across the entire 104F & G mapsheets by the federal/provincial RGS program (GSC, 1988). The comparison between Voigtberg silt samples and the percentiles for the RGS samples shows that seven out of eight silt samples are above the 95th percentile in at least half of the elements of interest.

Table 6: 2007 Silt Samples Relative to RGS Data

Percentile	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
80 th (RGS)	11	0.2	10	76	2	12	1.0	112
90 th (RGS)	30	0.3	17	104	4	16	1.7	133
95 th (RGS)	63	0.4	29	134	7	23	2.4	181
99 th (RGS)	237	1.0	81	278	18	62	5.5	489
Sample#								
E841751	60	0.5	114	175	32	85	3	115
E841752	35	0.4	80	129	8	36	3	143
E841753	28	0.9	44	150	6	155	-2	338
E841754	33	1.2	75	67	10	159	4	111
E841755	54	0.6	34	166	7	31	3	168
E841756	12	<0.2	14	93	4	35	-2	107
E841757	6	0.2	11	59	3	8	-2	94
E841758	<5	0.3	15	60	1	10	<2	98

9.2 Soil Geochemistry

Prior to this year, 623 soil samples had been reported from the Voigtberg property, almost entirely taken from the Gold, North, and Gossan Zones ("Core Area"). In 2007 a total of 322 samples were taken throughout the property, 160 samples were taken within the Core Area, while 88 were specifically focused within the North Zone, extending the existing grid as far north as accessible, the remaining 162 samples were sampled from outlying parts of the property. The soil samples consist of both grid and contour sampling of both talus fines and developed alpine soils. The grid is oriented with lines spacing of 100m with some infill 50m lines all oriented at 110°.

Table 7: 2007 Soil Percentiles

Percentile	Au	Ag	As	Cu	Mo	Pb	Sb	Zn
Property Ranges (n = 162)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
80 th	14	0.2	14	83	4	18	1	184
90 th	18	0.6	39	147	18	41	4	242
95 th	27	1.0	51	180	31	76	6	387
98 th	37	1.2	61	230	39	110	10	487
Percentile	Au	Ag	As	Cu	Mo	Pb	Sb	Zn
Core Area Ranges (n=783)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
80 th	305	2.6	324	304	84	134	10	224
90 th	469	3	441	362	117	204	12	280
95 th	750	4	644	457	187	298	16	364
98 th	892	6272	830	643	295	503	22	547

Since the vast majority of the soil samples have been taken within the mineralized Core Area, percentiles derived from the entire data set are skewed to very high values. Values in Table 7 are calculated for the entire data set as well as for the samples outside of the area.

Table 8: 2007 Soil Correlation Matrix

	Au_ppb	Ag_ppm	As_ppm	Cu_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
Au_ppb		0.52789	0.700296	0.503657	0.263868	0.286827	0.057396	0.054184
Ag_ppm	0.52789							
As_ppm	0.700296	0.625445						
Cu_ppm	0.503657	0.498362	0.6263					
Mo_ppm	0.263868	0.260387	0.352213	0.394984				
Pb_ppm	0.286827	0.488596	0.310567	0.312844	0.284012			
Sb_ppm	0.057396	0.275262	0.488528	0.311304	0.122553	0.067984		
Zn_ppm	0.305187	0.663018	0.437856	0.362794	0.186073	0.484619	0.269652	

Arsenic as a pathfinder in soils shows a strong gold correlation with a coefficient of 0.7, based on all the soil samples taken from the property. By contrast in drill core Au:As shows a less prominent correlation with a coefficient of 0.3. This could suggest a different source for the talus material, or that Au and As are both present in the mineralizing system but not closely related enough to correlate on individual core samples.

Looking specifically at the contour soil sampling carried out in the northeastern and southeastern portions of the property, there are clearly some anomalous samples suggestive of the potential additional targets, still currently undefined.

This year's soil sampling successfully extended the North Zone right to the edge of the Matthew Glacier and expands the Core Zone to include all of the area between the two lobes that shoulder the Core Area. The survey also indicates potential in the North Eastern portion of the property, on the east facing slope. Sampling on the south and west facing slopes in the northeastern portion of property proved too difficult due to extreme relief, but mapping and prospecting did not find anything perspective along these slopes.

10.0 DIAMOND DRILLING

In 2007 a total of four holes on four setups totalling 587.8 m of NQ core were drilled by Apex Diamond Drilling of Smithers, BC. To date 11 holes totalling 1556.22m have been drilled on the Gold and 203.68m in the North Zone.

Table 9: 2007 Diamond Drilling Data

Drill Hole	Zone	Collar Coordinates			Azimuth	Inclination	Depth (m)
		Easting	Northing	Elev. (m)			
VGT07-08	Gossan/Gold	403430	6331616	1583	345	-50	200.64
VGT07-09	North	403369	6332246	1811	360	-50	203.68
VGT07-10	Gold	403617	6331887	1712	345	-50	136.8
VGT07-11	North	403409	6332030	1760	360	-50	46.7
VGT07-X	Gold Zone	403481	6331834	1697	345	-60	0
Total							587.8

10.1 VGT07-08 (Figure 6a):

This hole was designed to follow up on VGT06-06, which was abandoned in overburden. Both holes test the western extent of the Gold Zone. This hole intersected dacite lapilli tuff and massive andesite flows with multiple feldspar megacrystic monzonite dykes of variable widths from 1m to almost 40m. Copper and gold values were anomalous throughout the hole, but the higher values were limited to narrow sections, while broader intersections were of limited grade. The best intersection in this hole was from 36.48m to 113.10m (76.62m) containing 0.22 g/t Au. This intercept consists of dacite lapilli tuff cut by a 20m wide monzonite dyke. The dacite units exhibit what appears to be K-feldspar alteration and pseudoleucite(?) with weak to moderate patchy carbonate and sericite alteration, while the monzonite contains flood silica and K-feldspar alteration and contain 5 to 8% pyrite. Although the core consistently contained >2% pyrite, the higher pyrite content within significant intersections suggest that hosted by pyrite. Alteration is based on petrographic work performed on samples from the 2006 program and visual comparison of samples. This hole contained moderate silica alteration in all lithologies, with the strongest alteration noted in the dykes. Weak to moderate patchy sericite and carbonate alteration within the andesite and dacite were observed. Sericite alteration in the feldspar megacrystic monzonite dykes was most prevalent in the megacrysts. Carbonate and quartz veins cut all lithologies, generally at moderate (45-70°) angles to the core.

10.2 VGT07-09 (Figure 6b):

This hole is the northernmost hole drilled on the property to date, testing the coincident polymetallic geochemical and IP chargeability anomaly referred to as the North Zone. This hole intersected dacite and andesite flows with a lack of any monzonite dyking. Surface mapping in the area has identified the presence of feldspar megacrystic monzonite dykes in the area which indicates that the system would have plumbing available for fluid movement to account for the anomalous values in the hole. The most interesting result from this hole would be 41.34m from 4.26m to 45.60m containing 0.18 g/t Au and 0.019% Mo. There are small intervals of strong silica alteration in this interval which could mark fluid movement and in turn, the mineralization, which occurs with lower pyrite content than in the other intersections with gold values. Based on the shallow depth and distance from the Moly Zone, it does not appear that they are directly related but may be of a similar nature and may help to better define the system's boundaries. This hole intersected moderate silica alteration with localized intervals of flood silica alteration. VGT07-09 also intersected weak to moderate patchy sericite and carbonate alteration within the andesite and dacite. Carbonate and quartz veins cut all lithologies, generally at moderate (45-70°) angles to the core.

10.3 VGT07-10 (Figure 6c):

This hole is a 75m easterly step-out from VGT06-05 and is a follow up hole to further test the positive result of 51.15m of 1.03 g/t Au. The hole intersected andesite/dacite flows and lapilli tuff with multiple narrow (between 22m and 3m) monzonite dykes. This hole contains the best Au mineralization of the program, with a 76.40m intercept of 0.41 g/t Au in both the dyke and immediate surrounding wallrock. The dyke contains 2% pyrite with moderate silica alteration. Both the dacite and andesite contain greater pyrite content (3 to 7%) and contain moderate sericite and weak to moderate silica alteration. Mineralization in this interval may be stronger due to the dyke only being a thin intersection (3.2m), suggesting a more peripheral portion of the dyke, representing a depositional environment for the fluid, which appears to be using the dykes as plumbing. The contact between the dacite and andesite flows may also act as a permeability or fluid pressure gradient, acting as a depositional site. VGT06-05's mineralized intersection occurs in a similar setting with a narrow dyke intersection (5.8m), as well as being spatially near the mapped surface contact between the dacite and andesites intersected in VGT07-10.

10.4 VGT07-11 (Figure 6b):

This hole is the second hole testing the North Zone anomaly, drilling between the Gold Zone holes (VGT06-05, VGT06-06, VGT07-08, and VGT07-10) and the more northern hole in this anomaly (VGT07-09). This hole was oriented @ 360/-50 in an attempt to work with regional structural trends while also accommodating the topography of the area. Due to the significantly rotted nature of the outcrop/subcrop and below, the rods bound at a depth of 46.7m and the hole was abandoned. There were no significant, multiple sample, intersections contained within the recovered core, which consisted of very bleached and fragmented andesite flow.

10.5 VGT07-X:

This hole was designed as the westerly step-out from VGT06-05, the complementary hole to VGT07-10. The ground stability proved to be the limiting factor on this hole and ultimately caused it to fail. The hole was situated on a slope of roughly 50°, with a significant thickness of fine talus cover, which covered notably fractured and rotted bedrock. This talus layer washed to greater than four feet depth and the pad stability came into question prior to finishing the casing, causing the hole to be abandoned. This is still a valid target that could better define the trend of mineralization on the property.

Table 8 (cont'd): Significant 2007 Drill Intersections, Voigtberg Property

Drill hole	Zone	From (m)	To (m)	Interval (m)	Au (g/t)	Cu (ppm)	Mo (ppm)	Lithology
VGT07-08	Gold	36.48	113.10	76.62	0.22	488	12	ANDS, DACT, MNZT
VGT07-08	Gold	169.15	194.80	25.65	0.22	220	5	DACT
<i>Incl.</i>	Gold	173	175	2.00	0.44	186	3	DACT
VGT07-09	North	4.26	45.60	41.34	0.18	144	190	ANDS, DACT
<i>Incl.</i>	North	4.26	18.26	14.00	0.15	118	509	ANDS
VGT07-09	North	64.71	100.32	35.61	0.14	168	19	ANDS
VGT07-10	Gold	40.00	116.40	76.40	0.40	160	30	ANDS, DACT, MNZT
<i>Incl.</i>	Gold	51.68	91.20	39.52	0.48	156	27	ANDS
<i>Incl.</i>	Gold	61.76	71.50	9.74	0.77	162	12	ANDS
VGT07-11	Gold	27.36	30.4	3.04	0.12	120	64	ANDS

Table 9: Drill Core Percentiles

Percentile	Au	Ag	As	Cu	Mo	Pb	Sb	Zn
Core Area Ranges	(g/t)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
80 th	0.2	1.2	111	205	29	50	4	186
90 th	0.34	1.8	174	289	53	76	6	446
95 th	0.56	2.6	257	442	90	140	8	908
98 th	1.2	4.3	376	627	158	403	11	4255

Table 10: Drill Core Sample Correlation Matrix

	Au_ppb	Ag_ppm	As_ppm	Cu_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
Au_ppb		0.335982	0.470461	0.082853	0.093981	0.042095	0.190351	0.001964
Ag_ppm	0.335982							
As_ppm	0.470461	0.186431						
Cu_ppm	0.082853	0.208585	0.037295					
Mo_ppm	0.093981	0.214166	0.180264	-0.00486				
Pb_ppm	0.042095	0.413117	0.137925	0.489821	0.231931			
Sb_ppm	0.190351	0.160626	0.280495	0.253603	0.01395	0.232528		
Zn_ppm	0.001964	0.058289	-0.0366	0.212431	-0.02485	0.180917	0.030816	

11.0 GEOPHYSICS

Fugro Airborne Surveys was contracted to perform a helicopter borne DigHEM (frequency domain, helicopter borne EM system) and Magnetics survey of the property (Appendix F) The survey was flown from August 11th to August 13th and consisted of 404 line Km oriented at 170°/350° at 100m spacing and perpendicular tie lines spaced at 1000m. QA/QC for survey, preliminary in “field data” and additional interpretation was carried out by Jan Klein (Appendix G). The data was of an acceptable quality with only minor stripping due to the intense relief and strong winds associated with the area. There are multiple responses of interest throughout the property and four main areas of interest that were derived specifically from the airborne data by Jan Klein.

Zone A appears to be a weak conductor/bedrock conductor with weak magnetic association on the southern edge, along the edge of a large magnetic anomaly in the northwestern portion of the property. Both the weak conductor and the associated magnetic high run at an oblique angle to a fault which runs parallel to the Forest-Kerr fault to the west, which is a large regional sinistral strike slip fault to the west of the property. This is a geological setting that can potentially be attributed to being a good fluid or magma conduit.

Zone B is a coincident weak conductor with some magnetic associated response near interpreted lineaments and along trend of mapped faults. The mapping in the area shows that this is wholly contained within a graphitic, argillic shale unit, which would account for the conductive response. Grab samples in the area are below detection or approaching thresholds for all metals of interest. There is a dacite lapilli unit, but no evidence of the monzonite dyke associated with mineralization in the core area of the property.

Zone C is interpreted as an ENE trending response in a moderate magnetic area, across the Gossan and Moly zones as a weak bedrock conductor. This zone also trends perpendicular to the same main fault associated with Zone A. This is an area of interest, with positive drill results immediately to the north within similar though less conductive material as well as multiple lineaments in the area. This anomaly is at the southern extent of the core area and contains both anomalous soil and grab samples. The geology of the area contains parallel oriented dykes within both andesite and dacite units. Jan Klein has also identified the nature of the response to be suggestive of potentially a silicified core, based on a resistivity low immediately to the south of this conductive zone. 1km south of this zone is a weaker, but comparable resistivity low, forming a ring around this potential silicified core.

Zone D is a multiline response trending NNE in a magnetic low, consisting of weak bedrock conductors. This area is under overburden and was not successfully ground truthed during the program. It is currently interpreted to be within the sedimentary units, based on available outcrop to the north and regional scale mapping {Alldrick, 2005 #1214}.

12.0 DISCUSSION AND CONCLUSIONS

12.1 2007 Program Highlights

The 2007 program used multiple techniques to aid in generation of further targeting on the Voigtberg property, there were several positive results from this season's work:

- VGT07-10 intersected 76.20m of 0.4 g/t Au along section from the previous VGT06-05, which contained 51.15m of 1.03 g/t Au. This has expanded the extent of the Gold Zone's mineralization to 400 X 650m.
- VGT07-08 intersected 75.00m of 0.22 g/t Au in the southwestern portion of the Gold Zone, this could be the edge of stronger mineralization not fully defined in an area with significant dyke material mapped at surface in a coincident conductor to the south.
- Mapping east of the Moly Zone resulted in 2 grab samples containing >0.6% Mo in a previously untested area.

12.2 Conclusions

The drilling, surface and geophysical work suggest that there is a large gold bearing hydrothermal system in place on the Voigtberg property. The structural and geological setting is viable as a porphyry setting, but the copper rich portion of the system and the dimensions of the system remain enigmatic. The style of alteration and mineralization are suggestive of still having only exposed a pyritic halo of a potentially larger system. Pseudoleucite in volcanic rocks in drill core suggests that previously interpreted Texas Creek Suite feldspar megacrystic monzonites may belong to the Copper Mountain Suite, as seen at Galore Creek, and that the Voigtberg area is a volcanic centre similar to Galore Creek. With base metals such as the molybdenite sphalerite and galena in the core and pyritic altered volcanics associated with feldspar megacrystic monzonite dykes it could be surmised that the core area is in fact the pyritic halo of a larger or deeper system. The Galore Creek deposit is currently defined as open at depth and is considered to have a rather narrow surface expression, the same is potentially the case on the Voigtberg. The system is open to the north, but the Mathew Glacier terminates the potential to chase the system's North Zone any further in that direction. South of the mineralized zones, potential for further gold in pyrite mineralization or for Cu-Au-Mo porphyry mineralization is covered by glacial till and overburden. This area to the south also contains the "Zone C" geophysical target that correlates well with the general orientation of the dykes mapped and structures running oblique to the Forest-Kerr fault. The contour soils are anomalous where they skirt along the edges of the Zone C geophysical anomaly and are a combination of true soils and talus fines.

2007 mapping shows little potential on the newly staked ground, as it contains minimal intrusive material, none of which is mineralized. To date the sedimentary rock units have proven to be an unfavourable site for mineralization and these sedimentary rocks are the dominant units on the newly staked ground. In general, the mapping and contour soil sampling performed in 2007 did not show significant additional potential away from the core area, despite a few elevated soils and/or rocks that deserve follow up, such as the two molybdenum samples taken east of the Moly Zone. Northeast of the anomalous molybdenum grab samples, the geology appears less favourable. Although it has been mapped as monzonite and diorite, the units do not appear to be the same feldspar megacrystic monzonites, and grab samples in these units were not anomalous for any of the elements of interest.

13.0 RECOMMENDATIONS

The 2007 program experienced some logistical limitations, resulting in reduced drilling in the core area of the property. More drilling in the Gold Zone should be undertaken, but with the considerable talus content and rotted nature of the outcrop, it may be advisable to utilize a more powerful fly drill or look at reducing core size in the event of binding rods in a future program. A more sophisticated mud program may also help improve stability while drilling. Drilling should continue to be oriented 345° , as this appears to have been successful in cutting the orientation of the mineralization as well as being perpendicular to noted lineaments and faults from mapping and the airborne survey.

IP may better delineate targeting of drillholes in the area of limited outcrop south of the core area. Following IP, additional drilling may be warranted in the resistive target identified by Jan Klein as Zone C south of the core area. Additional mapping and prospecting may also yield more information about the nature of the mineralization in this area, although outcrop is limited. Follow up surface work should be performed on anomalous Mo values in grab samples east of the Moly Zone, as well as consideration for the anomalous soil samples in the contour lines in the northeast portion of the property.

Respectfully submitted,



Rory Kutluoglu, B.Sc (Geology)

EQUITY ENGINEERING LTD.

Vancouver, British Columbia

February 4, 2008

Appendix A: Bibliography

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Appendix B: Statement of Expenditures

STATEMENT OF EXPENDITURES

Voigtberg Property

August 14 – September 11, 2007

PROFESSIONAL FEES AND WAGES:

Henry Awmack, P.Eng.			
0.63 days @ \$650/day	\$	409.50	
Darcy Baker, Ph.D.			
0.63 days @ \$650/day		409.50	
Amanda Isaac, First Aid Attendant			
13.00 days @ \$400/day		5,200.00	
Murray Jones, P.Geo.			
1.00 days @ \$650/day		650.00	
Rory Kutluoglu, Project Geologist			
56.03 days @ \$650/day		36,416.75	
Joe McCreery, Prospector			
26.00 days @ \$475/day		12,350.00	
Adam Simmons, Project Geologist			
2.41 days @ \$650/day		1,568.25	
Elizabeth Sullivan, Sampler			
10.00 days @ \$275/day		2,750.00	
Joe Sullivan, Sampler			
1.50 days @ \$275/day		412.50	
Scott Parker, GIS/Logistics			
20.25 hours @ \$75/hour		1,518.75	
Clerical			
33.00 hours @ \$35/hour		1,155.00	
			\$ 62,021.25

EQUIPMENT RENTALS

Generator (1kVA)			
25 days @ \$20/day	\$	500.00	
Rental Truck Insurance			
38 days @ \$10/day		380.00	
Field Camp			
84 days @ \$35/manday		2,940.00	
Satellite Phones (Iridium)			
5 weeks @ \$75.00/week		375.00	
643 minutes @ \$1.89/min		1,215.27	
Chainsaws			
25 days @ \$30/day		750.00	
Field Computers			
48 days @ \$40/day		1,920.00	
PDA			
26 days @ \$20/day		520.00	
First Aid Equipment (Level III)			
25 days @ \$30/day		750.00	
			9,350.27

EXPENSES:

Chemical Analyses	\$ 12,684.66



Materials and Supplies	2,801.45	
Maps and Publications	40.00	
Plot Charges	84.22	
Printing and Reproductions	46.35	
Camp Food	1,923.64	
Meals	1,864.80	
Accommodation	4,427.79	
Truck Rental (non-Equity)	3,949.78	
Automotive Fuel	557.03	
Helicopter Charters	78,085.18	
Airfare	1,665.51	
Telephone Distance Charges	573.66	
Courier	22.62	
Freight	4,960.60	
Bulk Fuel	1,079.49	
Drum Deposits	300.00	
Airborne Geophysics	120,000.00	
Geophysical Equipment Rental	337.50	
Geophysical Consulting	2,800.00	
Padbuilding	9,350.00	
Radio Rental (non-Equity)	513.87	
Other Equipment Rental	1,650.00	
Drilling: Mob/Demob	10,179.35	
Drilling: Footage	110,539.02	
Drilling: Materials	4,362.15	
Expediting	1,079.38	
Report (estimated)	10,000.00	385,878.05
SUB-TOTAL:		\$ 457,249.57
PROJECT SUPERVISION CHARGES:		
12% on portion <\$200,000: (\$200,000.00)	\$ 24,000.00	
10% on balance: (\$257,249.57)	25,724.96	49,724.96
SUB-TOTAL:		\$ 506,974.53
GST: 6% on sub-total		30,418.47
TOTAL:		\$ 537,393.00



Appendix C: Rock Sample Descriptions

MINERALS AND ALTERATION TYPES

AC	Actinolite	FP	feldspar	PF	plagioclase
AL	alunite	GA	garnet	PH	phlogopite
AM	amphibole	GE	goethite	PL	pyrolusite
AS	arsenopyrite	GL	galena	PO	pyrrhotite
AU	augite	GR	graphite	PY	pyrite
AZ	azurite	HB	hornblende	QZ	quartz veining
BA	barite	HE	haematite	RE	realgar
BI	biotite	HS	specularite	RN	rhodonite
BO	bornite	HZ	hydrozincite	SB	stibnite
BT	pyrobitumen	IL	illite	SD	siderite
CA	calcite	JA	jarosite	SI	silicification
CB	Fe-carbonate	KF	potassium feldspar	SK	skarn
CC	chalcocite	MC	malachite	SM	smithsonite
CD	chalcedony	MG	magnetite	SP	sphalerite
CL	chlorite	MI	mica	SR	scorodite
CP	chalcopyrite	MN	Mn-oxides	SS	sulphosalts
CU	native copper	MO	molybdenite	ST	smectite
CV	covellite	MR	mariposite/fuchsite	TP	topaz
CY	clay	MS	sericite	TT	tetrahedrite
DC	dickite	MT	marcasite	VG	gold
DS	diaspore	MU	muscovite	ZE	Zeolite
DU	dumortierite	NA	natroalunite	ZN	zunyite
EN	enargite	NE	neotocite		
EP	epidote	PA	pyrargyrite		

ALTERATION INTENSITY

w	weak	s	strong
m	moderate	i	intense

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

200951 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331461	N	UTM 404085	E	Strike Length Exp:	Metallics: CP?, PY	<5	<0.2	5	69
	Elevation 1749	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		2	8	4	83
Sampled By: JMC 03-Sep-07	Pink coloured rock with calcite/carbonate alteration, mineralized rock seems to have green colour (maybe chlorite)?									
200952 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331468	N	UTM 404138	E	Strike Length Exp:	Metallics: 1%CP, 5%PY	15	<0.2	19	183
	Elevation 1753	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		120	12	<2	8
Sampled By: JMC 03-Sep-07	Abundant gossan.									
200953 Voigtberg	Grid North:		Grid East:		Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331466	N	UTM 404133	E	Strike Length Exp:	Metallics: 3%MO, 8%PY	24	0.3	62	16
	Elevation 1755	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		6010	16	<2	9
Sampled By: JMC 03-Sep-07	Abundant gossan.									
200954 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331489	N	UTM 404156	E	Strike Length Exp:	Metallics: 5%MO, 10%PY	14	0.5	32	93
	Elevation		Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		6590	20	<2	13
Sampled By: JMC 03-Sep-07	Abundant gossan.									
200955 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331667	N	UTM 404326	E	Strike Length Exp:	Metallics: 5%PY	<5	<0.2	2	49
	Elevation 1812	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		35	47	<2	57
Sampled By: JMC 03-Sep-07	Abundant gossan.									
200956 Voigtberg	Grid North:		Grid East:		Type: Select/Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331507	N	UTM 404641	E	Strike Length Exp:	Metallics: 2%PY	10	1	9	69
	Elevation 1748	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		22	29	4	24
Sampled By: JMC 03-Sep-07	Calcite vein? Sericite alteration.									

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

200957 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331524	N	UTM 404617	E	Strike Length Exp:	Metallics: 3%PY, SP?	<5	1.1	7	26
	Elevation 1735	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host :							15	27	2	21
Sampled By: JMC		Calcite vein system (sphalerite maybe?).								
03-Sep-07										
200958 Voigtberg	Grid North:		Grid East:		Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331186	N	UTM 403573	E	Strike Length Exp:	Metallics: 3%PY	<5	<0.2	6	8
	Elevation 1629	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host :							3	6	2	20
Sampled By: JMC		Light grey calcite/carbonate rock with calcite stringers.								
05-Sep-07										
200959 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6330318	N	UTM 404274	E	Strike Length Exp:	Metallics: SP?	<5	0.2	10	53
	Elevation		Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host : Vein							4	5	4	37
Sampled By: JMC		Small calcite vein with sphalerite? (possibly).								
05-Sep-07										
200960 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6330719	N	UTM 404192	E	Strike Length Exp:	Metallics: 3%PY	<5	0.2	49	51
	Elevation 1679	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host :							7	17	4	136
Sampled By: JMC		Veining hosted in light grey/green coloured rock.								
05-Sep-07										
200961 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6330948	N	UTM 404204	E	Strike Length Exp:	Metallics: 2%PY	7	<0.2	6	216
	Elevation 1675	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host :							2	12	2	83
Sampled By: JMC		Light grey rock with calcite stringers. Lots of gossan.								
05-Sep-07										
200962 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6330956	N	UTM 404209	E	Strike Length Exp:	Metallics: 1%PY	<5	0.2	11	3
	Elevation 1674	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host :							1	8	<2	12
Sampled By: JMC		Light grey coloured rock. Calcite altered.								
05-Sep-07										

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

200963 Voigtberg	Grid North:		Grid East:		Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>	
	UTM	6331390	N	UTM	404356	E	Strike Length Exp:	25	0.2	16	691
	Elevation	1740	m	Sample Width:		True Width:		<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
	Host :						157	7	4	8	
Sampled By: JMC	Medium grey coloured rock. Fine grained calcite/carbonate altered.										
05-Sep-07											
200964 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration: 1%CA	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>	
	UTM	6331546	N	UTM	404289	E	Strike Length Exp:	7	0.2	16	112
	Elevation	1757	m	Sample Width:		True Width:		<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
	Host :						6	21	<2	9	
Sampled By: JMC	Light grey fine rock. Fizzes slightly.										
05-Sep-07											
200965 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>	
	UTM	6332738	N	UTM	403506	E	Strike Length Exp:	59	0.5	94	137
	Elevation	1983	m	Sample Width:		True Width:		<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
	Host :						6	14	7	27	
Sampled By: JMC											
06-Sep-07											
200966 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>	
	UTM	6332644	N	UTM	403473	E	Strike Length Exp:	11	2.4	79	77
	Elevation	1936	m	Sample Width:		True Width:		<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
	Host :						20	49	8	11	
Sampled By: JMC											
06-Sep-07											
200967 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>	
	UTM	6332520	N	UTM	403288	E	Strike Length Exp:	193	0.6	24	85
	Elevation	1809	m	Sample Width:		True Width:		<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
	Host :						11	15	2	8	
Sampled By: JMC	Abundant gossan. Silica altered?										
06-Sep-07											
200968 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>	
	UTM	6332475	N	UTM	403283	E	Strike Length Exp:	35	0.8	30	123
	Elevation	1796	m	Sample Width:		True Width:		<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
	Host :						11	36	4	27	
Sampled By: JMC	Abundant gossan. Silica altered?										
06-Sep-07											

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

200969 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332456	N	UTM 403324	E	Strike Length Exp:	Metallics: 1%GL, 3%PY	36	1.5	121	226
	Elevation 1778	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		16	1560	4	61
Sampled By: JMC 06-Sep-07 Moderate gossan.										
200970 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332392	N	UTM 403319	E	Strike Length Exp:	Metallics: 5%PY	27	1.5	363	163
	Elevation 1786	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		29	631	7	243
Sampled By: JMC 06-Sep-07 Alteration light grey coloured rock.										
200971 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332357	N	UTM 403340	E	Strike Length Exp:	Metallics: 8%PY	98	0.7	135	66
	Elevation 1813	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		86	37	6	34
Sampled By: JMC 06-Sep-07 Abundant gossan. Pyrite finely disseminated.										
200972 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332319	N	UTM 403294	E	Strike Length Exp:	Metallics: 10%PY	50	0.8	86	178
	Elevation 1793	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		291	115	3	89
Sampled By: JMC 06-Sep-07 Abundant gossan. Silica altered.										
200973 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331603	N	UTM 403641	E	Strike Length Exp:	Metallics: 3%PY	30	0.9	28	111
	Elevation 1598	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		6	47	<2	71
Sampled By: JMC 07-Sep-07										
200974 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331609	N	UTM 403637	E	Strike Length Exp:	Metallics: 5%PY	21	0.4	108	219
	Elevation 1606	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		14	10	2	24
Sampled By: JMC 07-Sep-07										

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

200975 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331626	N	UTM 403634	E	Strike Length Exp:	Metallics: PY	530	0.5	1500	3110
	Elevation 1612	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		9	33	12	243
Sampled By: JMC 07-Sep-07										
200977 Voigtberg	Grid North:		Grid East:		Type:	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331621	N	UTM 403650	E	Strike Length Exp:	Metallics: PY	125	<0.2	436	700
	Elevation 1612	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		4	27	6	76
Sampled By: JMC 07-Sep-07										
200978 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM	N	UTM	E	Strike Length Exp:	Metallics: PY	44	0.2	96	320
	Elevation		Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		5	18	7	23
Sampled By: JMC 07-Sep-07										
200979 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331621	N	UTM 403638	E	Strike Length Exp:	Metallics: PY	10	<0.2	17	95
	Elevation 1608	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		172	8	3	96
Sampled By: JMC 07-Sep-07										
200980 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331288	N	UTM 403549	E	Strike Length Exp:	Metallics: 5%PY	<5	<0.2	21	55
	Elevation 1574	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		6	25	<2	399
Sampled By: JMC 07-Sep-07										
200981 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331215	N	UTM 403491	E	Strike Length Exp:	Metallics:	22	<0.2	22	19
	Elevation 1577	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		10	41	2	11
Sampled By: JMC 07-Sep-07										
Weathered out. Silica altered?										

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

200982 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331206	N	UTM 403484	E	Strike Length Exp:	Metallics: 3%PY	30	<0.2	25	18
	Elevation 1576	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		10	17	<2	14
Sampled By: JMC Weathered out. 07-Sep-07										
200983 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331181	N	UTM 403314	E	Strike Length Exp:	Metallics:	<5	<0.2	4	12
	Elevation 1534	m	Sample Width:		True Width:	Secondaries: 3%PY	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		2	23	2	23
Sampled By: JMC Abundant gossan. 07-Sep-07										
200985 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331325	N	UTM 403430	E	Strike Length Exp:	Metallics: 10%PY	<5	<0.2	18	91
	Elevation 1483	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		3	28	3	61
Sampled By: JMC Light grey. Abundant gossan. 07-Sep-07										
200986 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6333053	N	UTM 402524	E	Strike Length Exp:	Metallics: 2%PY	<5	<0.2	80	77
	Elevation 1631	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		3	7	2	50
Sampled By: JMC Carbonate alteration? 08-Sep-07										
200987 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6333018	N	UTM 402487	E	Strike Length Exp:	Metallics: 3%PY	<5	<0.2	16	68
	Elevation 1645	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		1	12	<2	32
Sampled By: JMC 08-Sep-07										
200988 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332968	N	UTM 402482	E	Strike Length Exp:	Metallics:	<5	<0.2	26	77
	Elevation 1636	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		3	12	2	58
Sampled By: JMC 08-Sep-07										

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

200989 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332296	N	UTM 402476	E	Strike Length Exp:	Metallics: 5%PY	8	<0.2	17	31
	Elevation 1442	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		7	45	3	43
Sampled By: JMC 08-Sep-07										
2009894 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331301	N	UTM 403412	E	Strike Length Exp:	Metallics: 3%PY				
	Elevation 1492	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :					
Sampled By: JMC 07-Sep-07 Carbonate alteration? Light grey colour.										
200990 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332315	N	UTM 402911	E	Strike Length Exp:	Metallics: 15%	<5	18.5	133	338
	Elevation 1541	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		245	194	4	51
Sampled By: JMC 09-Sep-07 Abundant gossan. Silica altered?										
200991 Voigtberg	Grid North:		Grid East:		Type: Select/Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332501	N	UTM 403314	E	Strike Length Exp:	Metallics: CP?, trG, 5%PY	57	<0.2	50	2330
	Elevation 1780	m	Sample Width:		True Width:	Secondaries: mAZ,mMC	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		127	655	6	40
Sampled By: JMC 09-Sep-07										
200992 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332507	N	UTM 403352	E	Strike Length Exp:	Metallics: CP?, 5%PY	28	2.2	44	2590
	Elevation 1800	m	Sample Width:		True Width:	Secondaries: wAZ,mMC	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		170	375	4	59
Sampled By: JMC 09-Sep-07										
200993 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332415	N	UTM 403381	E	Strike Length Exp:	Metallics: trCP, 8%PY	251	0.9	132	254
	Elevation 1829	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		51	47	6	30
Sampled By: JMC 09-Sep-07 Chalcopyrite in small calcite vein?										

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

200994 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332385	N	UTM 403377	E	Strike Length Exp:	Metallics: 5%PY, 1%SP	600	46.2	236	266
	Elevation 1827	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		77	1880	153	19000
Sampled By: JMC	Light grey coloured rock.									
09-Sep-07										
200995 Voigtberg	Grid North:		Grid East:		Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6333328	N	UTM 406414	E	Strike Length Exp:	Metallics: 2%PY	<5	<0.2	5	18
	Elevation 1091	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		2	21	<2	84
Sampled By: JMC	Some gossan. Calcite/carbonate alteration?									
10-Sep-07										
200996 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6333560	N	UTM 406297	E	Strike Length Exp:	Metallics: 3%PY	5	<0.2	<2	89
	Elevation 1112	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		<1	10	4	98
Sampled By: JMC	Sediments.									
10-Sep-07										
200997 Voigtberg	Grid North:		Grid East:		Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6334180	N	UTM 405896	E	Strike Length Exp:	Metallics: 3%PY	<5	<0.2	<2	46
	Elevation 1154	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		1	7	5	74
Sampled By: JMC	Some gossan. Calcite/carbonate altered?									
10-Sep-07										
200998 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6334187	N	UTM 405833	E	Strike Length Exp:	Metallics: 3%PY	<5	<0.2	5	69
	Elevation 1136	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		1	4	5	62
Sampled By: JMC										
10-Sep-07										
200999 Voigtberg	Grid North:		Grid East:		Type:	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6334494	N	UTM 405331	E	Strike Length Exp:	Metallics: 2%PY	<5	<0.2	3	11
	Elevation 1191	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		<1	16	4	51
Sampled By: JMC	Abundant gossan.									
10-Sep-07										

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

201000 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6334575	N	UTM 404998	E	Strike Length Exp:	Metallics: 5%PY	282	0.5	216	9
	Elevation 1286	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host :							6	73	3	442
Sampled By: JMC 10-Sep-07										
202801 Voigtberg	Grid North:		Grid East:		Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6334578	N	UTM 405043	E	Strike Length Exp:	Metallics: 8%PY	251	0.3	226	12
	Elevation 1286	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host :							<1	9	3	39
Sampled By: JMC 10-Sep-07 Abundant gossan and pyrite in large boulder.										
202802 Voigtberg	Grid North:		Grid East:		Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6333797	N	UTM 407002	E	Strike Length Exp:	Metallics: CP?, 5%PY	18	0.6	4	1350
	Elevation 898	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host :							58	5	3	61
Sampled By: JMC 11-Sep-07 Chalcopyrite may be weathered pyrite.										
202803 Voigtberg	Grid North:		Grid East:		Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6334256	N	UTM 406569	E	Strike Length Exp:	Metallics: 3%PY	9	<0.2	55	24
	Elevation 997	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host :							<1	4	6	28
Sampled By: JMC 11-Sep-07 Moderate gossan.										
202804 Voigtberg	Grid North:		Grid East:		Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6334530	N	UTM 406084	E	Strike Length Exp:	Metallics: 2%PY	5	0.4	9	15
	Elevation 1052	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host :							7	15	4	44
Sampled By: JMC 11-Sep-07 Strong gossan. Carbonate altered?										
202805 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6334668	N	UTM 405668	E	Strike Length Exp:	Metallics: 1%PY	<5	0.2	7	73
	Elevation 1191	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
Host :							1	8	2	62
Sampled By: JMC 11-Sep-07 Sediments.										

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

202806 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration:	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6334872	N	UTM 405479	E	Strike Length Exp:	Metallics: 3%PY	<5	<0.2	10	13
	Elevation 1256	m	Sample Width:		True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host :		1	5	2	51
Sampled By: JMC		Moderate gossan. Alteration.								
11-Sep-07										
202852 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration: 1%CA, 3%SI	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331681	N	UTM 404310	E	Strike Length Exp: 15 m	Metallics: 10%PY	8	0.2	8	40
	Elevation 18	m	Sample Width: 10	cm	True Width:	Secondaries: mGE,mHE,mJA	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host : MNZ		3	18	<2	9
Sampled By: RAK		Rusty fractured outcrop.								
02-Sep-07										
202853 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration: vns?, CA, mSI	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6331615	N	UTM 403641	E	Strike Length Exp: 15 m	Metallics: 10%PY	<5	<0.2	148	120
	Elevation 1610	m	Sample Width: 10	cm	True Width: 15 m	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Bedding 270°/°	Host : Dacite --> flow banded	1	17	4	44
Sampled By: RAK		Pyrite rich dacite--> andesite flow.								
02-Sep-07										
202854 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration: 0-1%CA	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332821	N	UTM 403420	E	Strike Length Exp: 5 m	Metallics: 3%PY	8	<0.2	144	69
	Elevation 1935	m	Sample Width: 20	cm	True Width: 5 m	Secondaries: mGE,mHE,mJA,mMN	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Joint 120°/74°	Host : ANDS/DAC flow	17	43	8	26
Sampled By: RAK		Very fine grain pyrite, gossanous outcrop, very fine grained unit.								
09-Sep-07										
202855 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration: 0-1%CL	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332714	N	UTM 403417	E	Strike Length Exp:	Metallics: 3%PY	65	1	153	113
	Elevation 1911	m	Sample Width: 5	cm	True Width: 1 m	Secondaries: mGE,mHE,mJA,mMN	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host : Cong		11	38	9	13
Sampled By: RAK		Dacite with rusty alteration near/in contact with conglomerate.								
09-Sep-07										
202856 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration: w-mSI	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332679	N	UTM 403398	E	Strike Length Exp: 10 m	Metallics: 3-5%PY	152	1.6	143	154
	Elevation 1878	m	Sample Width: 10	cm	True Width: 10 m	Secondaries: mGE,mHE,mJA,mMN	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host : ANDS/PAC flow (massive?)		120	65	6	15
Sampled By: RAK		Very fine grained pyrite								
09-Sep-07										

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

202857 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration: wCL,mSI	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332603	N	UTM 403356	E	Strike Length Exp:	Metallics: 10%PY	132	<0.2	167	153
	Elevation 1835	m	Sample Width: 10	cm	True Width: 4 m	Secondaries: mGE,mHE,mJA,mMN	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
					Host : ANDS/DAC		23	39	8	82
Sampled By: RAK 09-Sep-07	Grey fine grained crystalline with very fine grained wispy pyrite. Strongly oxidized outcrop, comparable wispy pyrite.									
202858 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration: wCL, wKF?, wMS?	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332515	N	UTM 403355	E	Strike Length Exp: 1 m	Metallics: trGL, 3%PY	98	<0.2	155	35
	Elevation 1815	m	Sample Width: 15	cm	True Width: 3 m	Secondaries: 1-2%GE, 1%HE, 2%JA,	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
			Bedding 120°/90°		Host : MNZT		18	249	10	2630
Sampled By: RAK 09-Sep-07	Surficial weathered dyke cutting ANDS.									
202859 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration: KF?,2%SI	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332460	N	UTM 403346	E	Strike Length Exp:	Metallics: 1%CP, 5%PY	288	<0.2	349	78
	Elevation 1800	m	Sample Width: 5	cm	True Width: 5 cm	Secondaries: wHE, wJA, wMN	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
			Bedding +Joint 070°/85°		Host : ANDS		31	851	9	142
Sampled By: RAK 09-Sep-07	Moderate rusty surface with very fine grained pyrite and fine grained trace chalcopyrite.									
202860 Voigtberg	Grid North:		Grid East:		Type: Select/Grab	Alteration: mKF, mMS	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6332454	N	UTM 403346	E	Strike Length Exp: 1.5 m	Metallics: trCP, trPY	128	1.9	308	285
	Elevation 1794	m	Sample Width: 10	cm	True Width: 10 cm	Secondaries: mGE, mHE, mJA,wMC,	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
			Vein/Fault/Joint 325°/80°		Host : ANDS LT?		10	2010	11	1700
Sampled By: RAK 09-Sep-07	Malachite + gossanous sheared part of ANDS flow.									
202861 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration: 2%CA	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6333986	N	UTM 406159	E	Strike Length Exp: 10 m	Metallics: 1%PY	<5	<0.2	3	27
	Elevation 1062	m	Sample Width: 5	cm	True Width:	Secondaries:	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
			Joint 175°/78°		Host : Ca-S.S.		<1	10	4	109
Sampled By: RAK 10-Sep-07	Carbonate alternation.									
202862 Voigtberg	Grid North:		Grid East:		Type: Grab	Alteration: 1%CA, 2%SI	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	<u>Cu (ppm)</u>
	UTM 6334051	N	UTM 406100	E	Strike Length Exp: 15 m	Metallics: 1%PY	<5	<0.2	5	46
	Elevation 1060	m	Sample Width: 5	cm	True Width: 10 m	Secondaries: wHE, wJA	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>Zn (ppm)</u>
			Bedding 170°/65°		Host : MNZT-DIOR		1	9	2	104
Sampled By: RAK 10-Sep-07	Contact with shale.									

Rock Sample Descriptions

Voigtberg

Operator: BCGold

Project: BCG07-01 2007

NTS: 104G/2E

202863
Voigtberg

Grid North:

UTM 6334508 N

Grid East:

UTM 406064 E

Type: Grab

Strike Length Exp:

Alteration: 1%CL

Metallics: 1%PY

Elevation 1126 m

Sample Width: 25 cm

True Width:

Secondaries: 1%JA

Bedding 050°/62°

Host: DACITE

Au (ppb) **Ag (ppm)** **As (ppm)** **Cu (ppm)**

<5 <0.2 <2 30

Mo (ppm) **Pb (ppm)** **Sb (ppm)** **Zn (ppm)**

<1 8 5 88

Sampled By: RAK
11-Sep-07

Appendix D: Drill Logs



DRILL LOG

Project: Voigtberg	Collar Elevation (m): 1588.0
Hole VGT07-08	Azimuth (°): 345
Location: 6331616 m North 403430 m East	Dip (°): -50.0
Logged by: R.Kutluoglu	Length (m): 200.64
Drilled by: Apex Drilling	Horizontal Projection:
Assayed by: ALS Chemex	Vertical Projection:
Core Size: NQ	
Date Started: 2007/08/22	
Date Completed: 2007/08/22	
Dip Tests By: Acid Test	
Objective Follow up to VGT06-06, targeting the western portion of the gold zone, immediately north of the gossan zone	

Summary Log:

From 0.00m to 3.64m: Casing:
 From 3.64m to 9.32 m: Andesite:
 From 9.32m to 16.60m: Dacite
 From 16.60m to 18.70m: Andesite Lapilli Tuff
 From 18.70m to 23.00m: Monzonite
 From 23.00m to 26.80: Andesite Flow
 From 26.80m to 29.10m: Carbonate Breccia
 From 29.10m to 52.95m: Dacite
 From 52.95m to 73.56m: Monzonite
 From 73.56m to 118.66m: Andesite Flow
 From 118.66m to 157.30m: Feldspar Megacrystic Monzonite
 From 157.30m to 164.32m: Andesite Flow.
 From 164.32m to 167.00m: Feldspar Megacrystic Monzonite
 From 167.00m to 167.88: Dacite
 From 167.88m to 169.10m: Feldspar Megacrystic Monzonite
 From 169.10m to-195.80m: Dacite Flow
 From 195.80m to-200.64m: Feldspar Megacrystic Monzonite
 200.64 EOH



DRILL LOG

Project: Voigtberg

Hole ID: VGT07-08

Downhole surveys:

Depth	Dip	Azimuth
0.00	-51.00	345.00
100.30	-57.00	345.00
200.64	-55.00	345.00

[illegible]

Project: Voigtberg

Hole Number: VGT07-08

From	To	Rocktype	& Description	py	sp	cp	mo	ca	kr	ms	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
« 14.50- 14.60	Sericite 3.00*»			15															
« Pyrite 5.00%»	« Molybdenite 0.10%»																		
« 15.40- 16.40	Calcite 2.00*»	Moderate angle veinlets of variable width from sub mm to 0.5cm.																	
16.90	18.70	Andesite																	
Lapilli Tuff. Very fine-grained grain, grey to dark grey. Bedding @ 45 TCA. Lapilli subangular and variable in size, at cm scale. Top of unit light grey and well bedded. Very fine-grained grain disseminated pyrite to 10% « Pyrite 10.00%» « Calcite 1.00*» Carbonate occurring as small wispy veinlets and patchy narrow lenses. < @ 17.20 Vein 45.00° 0.10cm > Carbonate and quartz with very fine-grained grain pyrite. < @ 17.35 Vein 10.00° 0.10cm > Carbonate vein with clay rich contacts.																			
16.60	18.70	2.10	196759	0.32	0.50	183	3.00	10											
16.60	18.70	2.10	196760																
18.70	23.00	Monzonite																	
Fine grain, grey to light grey, with pink feldspar phenocrysts mean size of 0.5 cm. Unit has been weakly altered by carbonate veins with sericite alteration patches. « Calcite 1.00*» As veinlets and blebs. « 18.70- 21.28 Sericite 2.00*» Patchy alteration throughout the core as well as discrete intervals of alteration, with interstitial weak carbonate alteration. « Pyrite 7.00% 0.01cm» Very fine-grained grain disseminated pyrite through out interval. < @ 19.33 Fault 40.00-25.00° 20.00cm > Light grey clay interval, with fine-grained grain disseminated pyrite. « 20.34- 21.28 Silicification 2.00-3.00*» Pervasive silica alteration, significant overprinting and obscured of primary texture. « K-feldspar 1.00-2.00*» « Sericite 1.00*» « Pyrite 7.00%» Very fine-grained grain disseminated and fracture coating.																			
18.70	19.90	1.20	196761	0.18	0.40	96	4.00	-10											
19.90	21.28	1.38	196762	0.21	0.40	99	4.00	-10											
21.28	23.00	1.72	196763	0.13	0.30	81	4.00	-10											
23.00	26.80	Andesite																	
Fine to very fine-grained grain, grey to light grey with weak to moderate																			
23.00	24.90	1.90	196764	0.17	0.50	163	5.00	-10											
24.90	26.80	1.90	196765	0.18	0.70	110	5.00	-10											

Project: Voigtberg

Hole Number: VGT07-08

From	To	Rocktype	& Description	Py	Sp	Op	Mo	Ca	Mt	Mns	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm						
			foliation @ 30 to 40 TCA. Cm sized, subrounded fragments of pink feldspars and quartz. Pyrite as wispy veinlets, variable angle TCA and as very fine-grained grain dissemination.																						
			« Pyrite 8.00%»																						
			Intervals of brittle, clay slickenside along fractures, shallow and steep angles TCA.																						
			« 25.00- 25.80 Silicification 2.00-3.00*» Flood silica with small fragments of quartz, fine-grained grain disseminated pyrite and minor shallow carbonate veinlets (late).																						
			< @ 24.00 Breccia 20.00-60.00° 55.00cm > Sericite / Clay, carbonate. Subrounded clasts contain lithic fragments. Clasts composed of plagioclase rich moderately altered to sericite material with quatzr and feldspar phyrlic dacite (?). Fine grain disseminated pyrite within fragments in clasts, clasts and matrix. Matrix is dominantly very fine-grained grain mafic minerals.																						
			< @ 26.25 Vein 50.00° 1.00cm > Quartz vein with k-feld? alteration halo and fine-grained grain disseminate pyrite and ultra trace chalcopyrite?																						
26.80	29.10	Breccia - Collapse(?)									26.80	27.90	1.10	196766	0.09	0.40	125	4.00	-10						
			Carbonate breccia, grey to dark grey and white to pinkish white fragments. Matrix is carbonate sericite dominated with fine-grained grain disseminated pyrite. Feldspar phyrlic monzonite and andesite fragments.								27.90	29.10	1.20	196767	0.12	0.40	133	6.00	-10						
			« Calcite 3.00*»																						
			« Sericite 3.00*» Clay and sericite rich matrix, gypsum?																						
29.10	52.95	Dacite									29.10	31.10	2.00	196768	0.13	0.40	76	2.00	-10						
			Fine to very fine-grained light to grey plagioclase and orthoclase(?) phyrlic massive overall competent unit. Minor carbonate blebs and veinlets. Moderate to strong patchy silica alteration. Very fine-grained grain disseminated pyrite and trace fracture coating molybdenite.								31.10	33.44	2.34	196769	0.07	0.30	123	3.00	-10						
			« Calcite 1.00*»								31.10	33.44	2.34	196770											
			« Silicification 2.00*»								36.48	39.52	3.04	196771	0.07	1.60	692	7.00	-10						
			« Pyrite 8.00%»								39.52	41.52	2.00	196772	0.03	0.40	64	3.00	-10						
			< @ 29.10 Contact 60.00-20.00° 20.00cm > Sharp contact from matrix supported breccia to clast supported crackle breccia to unit.								41.52	43.60	2.08	196773	0.06	1.40	112	5.00	-10						
			< @ 29.90 Fault 15.00° 0.40cm > Fault gouge, clay filled fracture. 10cm below fault core it less competent then overall consistency of unit.								43.60	45.60	2.00	196774	0.04	0.20	111	2.00	-10						
			< @ 30.45 Breccia 60.00-10.00° 80.00cm > Fault gouge clay rich crackle								45.60	48.64	3.04	196775	0.05	1.80	532	5.00	10						
											48.64	50.60	1.96	196776	0.01	1.00	200	2.00	10						
											50.60	51.68	1.08	196777	0.01	0.70	188	3.00	10						
				51.68	52.95	1.27	196778	0.02	0.50	195	5.00	10													

Project: Voigtberg

Hole Number: VGT07-08

From	To	Rocktype & Description	Py	Sp	Op	Mo	Ca	Kf	Ms	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
		breccia. Minor carbonate alteration, increased pyrite content.																
		« 30.45- 31.25 Pyrite 10.00%» As very fine-grained grain stringers and disseminated euhedral grains.																
		« Calcite 1.00*»																
		« Sericite 2.00-3.00*»																
		< @ 32.10 Fault 80.00° 6.00cm > Clay fault gouge with wallrock fragments, minor breccia zone.																
		« 32.10- 33.44 Silicification 3.00-4.00*» Flood silica, strongly overprinted primary textures.																
		« 33.00- 33.44 Molybdenite 0.50%» Very fine-grained grain fracture fill with pyrite																
		< @ 33.44 Fault 300.00cm > Fault block, recovery to 5cm.																
		« 39.80- 40.10 Molybdenite 0.50% 0.01cm» Weak fracture fill 50 to 60 TCA, possible molybdenite coating.																
		« 41.50- 41.60 Sphalerite 0.10%» Possible trace yellow-orange sphalerite?																
		« 42.25- 42.56 Molybdenite 1.00%» Trace fracture fill, fine-grained grain molybdenite.																
		« 42.90- 43.60 K-feldspar 2.00*» patchy moderate k-feld alteration																
		« Silicification 2.00-1.00*» Weak to moderate silica alteration, overprinted texture of k-feld and silica.																
		« Pyrite 12.00%» « Molybdenite 1.00%» Very fine-grained grain wispy pyrite veinlets with very fine-grained grain molybdenite.																
		< @ 43.20 Vein 5.00° 0.10cm > Narrow carbonate veinlet																
		< @ 43.55 Vein 80.00° 0.10cm > Narrow carbonate veinlet intermingled with 5 TCA veinlet.																
		Fine to very fine-grained grain orthoclase(?) phyrlic (20% phenocrysts).																
		« Pyrite 8.00%»																
		« Calcite 1.00*» As small veinlets and patchy blebs.																
		« Silicification 2.00-3.00*» Overall pervasive alteration.																
		« 44.35- 44.45 Pyrite 15.00%» Very fine-grained grain stringers of pyrite over interval.																
		< @ 46.90 Breccia 80.00° 15.00cm > Crackle breccia texture with k-feldspar alteration and strong silica alteration.																
		< @ 49.10 Vein 55.00-13.00° 0.10cm > Small fracture fill pyrite with possible molybdenite and ultra trace chalcopyrite(?) with weak to moderate alteration halo of silica and k-feld?																
		< @ 50.20 Breccia 30.00-80.00° 5.00cm > Carbonate clast supported breccia,																

Project: Voigtberg

Hole Number: VGT07-08

From	To	Rocktype	& Description		From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
			crackle textured.										
			< @ 51.30 Vein 45.00° 5.00cm > Patchy alteration, rhylite dyke? light grey, fine-grained grain with small pseudoleucite? to 30%. Massive texture and pyrite to 20%.										
			« 51.30- 51.35 Pyrite 20.00%» Very fine-grained grain wispy veinlets and disseminated in dyke(?)										
			< @ 52.98 Vein 30.00° 3.00cm > Vitrious medium-grained to coarse-grained grained quartz vein with pyrite and molybdenite fracture fill along contacts and along fractures with in vein as well. K-feld(?) alteration halo 8cm width.										
			< @ 52.95 Fault 50.00° 5.00cm > Clay rich fault gouge with small wallrock fragments at contact between Dacite and Monzonite.										
52.95	73.56	Monzonite			52.95	55.40	2.45	196779	0.03	0.90	91	3.00	-10
			Light grey to buff, fine-grained grain massive to moderately foliated @ 40 TCA. increased carbonate veining both in content and width (Vein density up to 5/m from 2/m of previous units.) Moderate to strong silica alteration, moderate to weak k-feld? alteration. Weakly phyric with small orthoclase(?) phenocrysts (10% or less, 1-2mm or less).		55.40	55.40	0.00	196780					
			« 52.95- 55.40 K-feldspar 1.00*»		55.40	57.00	1.60	196781	0.08	2.00	484	6.00	10
			« Pyrite 8.00%» Very fine-grained grain fracture fill with minor molybdenite as patchy fracture fill.		57.00	59.00	2.00	196782	0.21	1.40	686	17.00	10
			« Molybdenite 1.00%» Small wispy fracture fill.		59.00	60.80	1.80	196783	0.25	1.50	595	19.00	-10
			« Silicification 3.00*» Flood silica, strong overprinting, minimal primary texture.		60.80	62.60	1.80	196784	0.26	1.70	744	12.00	-10
			« 55.40- 62.80 K-feldspar 2.00-3.00*» Pervassive fragmented alteration, in-situ breccia texture, minor carbonate blebs and veins variable angle to the core and thicknesses between 0.1 and 1cm. Alteration banded @ 50 TCA around quartz veining.		62.60	64.64	2.04	196785	0.38	1.30	700	23.00	-10
			« Silicification 2.00-3.00*»		64.64	66.60	1.96	196786	0.94	2.00	731	18.00	-10
			« Pyrite 5.00-8.00%» As wispy veins variable angle to the core and fracture fill, lesser component of disseminated fine-grained grains.		66.60	68.60	2.00	196787	0.24	1.10	179	12.00	10
			« Molybdenite 1.00%» As fracture fill with pyrite.		68.60	70.34	1.74	196788	0.19	2.70	545	22.00	10
			< @ 56.90 Fault 25.00° 5.00cm > Rubbled core with grey clay and minor trace very fine-grained grain pyrite.		70.34	72.50	2.16	196789	0.21	3.10	560	15.00	10
			< @ 57.35 Fault 80.00-50.00° 4.00cm > Grey clay fault gouge.		70.34	72.50	2.16	196790					
			< @ 62.30 Breccia 60.00° 8.00cm > Carbonate in-situ breccia.		72.50	73.56	1.06	196791	0.33	1.10	381	13.00	10
			< @ 62.80 Fault 65.00° 0.50cm > Small fault gouge.										
			« 62.80- 70.00 Silicification 3.00-4.00*» Flood silica, no primary texture, complete overprinting, with fine-grained pyrite in fracture fill and										

Project: Voigtberg				Hole Number: VGT07-08																						
From	To	Rocktype	& Description	py	sp	tp	mp	cp	kt	mg		From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm						
to lesser extent as fine-grained disseminated euhedral to subhedral grains.																										
< @ 67.60 Fault 45.00° 0.50cm > Grey fault gouge.																										
< @ 69.75 Fault 70.00° 1.00cm > Grey fault gouge.																										
< @ 71.30 Vein 5.00° 0.10-1.00cm > Flat lying quartz vein, vitrious and grey																										
to glassy white. Vein contains very fine-grained grain and fine-grained molybdenite and pyrite along contacts and within vein.																										
« 70.00- 71.45 Molybdenite 1.00-2.00%» Very fine-grained grain along variable angle fractures and as wispy coatings around altered k-feld patches.																										
« 70.15- 73.56 K-feldspar 2.00-3.00°» Patchy alteration, moderate to strong, with overprinting of primary texture.																										
« Silicification 2.00-3.00°» Flood silica alteration.																										
< @ 72.50 Fault 30.00° 1.00cm > Grey clay well consolidated and brittle																										
< @ 72.65 Fault 45.00° > Grey clay well consolidated and brittle																										
< @ 73.20 Fault 30.00° 2.00cm > Unsonsolidated grey clay gouge.																										
< @ 73.56 Contact 70.00° 32.00cm > Interfingered contact.																										
73.56	118.66	Andesite										73.56	75.56	2.00	196792	0.34	0.90	244	8.00	10						
Fine to very fine-grained grain, grey to dark grey, unit is predominantly massive, with strong alteration overprinting.												75.56	76.70	1.14	196793	0.35	1.20	330	15.00	-10						
Patchy k-feldspar alteration and strong silica alteration. Very fine-grained grain disseminated and fracture fill pyrite throughout unit. Minor carbonate veinlets at steep to moderate angles TCA (1 - 2 /m)												76.70	77.70	1.00	196794	0.21	1.20	626	12.00	-10						
« K-feldspar 2.00-3.00°» Patchy but pervasive alteration, with dominant banding oriented @ 45 TCA.												77.70	78.50	0.80	196795	0.62	1.10	188	32.00	10						
« Silicification 3.00°» Flood silica.												78.50	80.50	2.00	196796	0.28	0.70	635	21.00	-10						
« Pyrite 8.00%» As disseminated fine-grained grains, wispy veinlets and fracture fill / coating.												80.50	82.50	2.00	196797	0.40	1.40	542	67.00	10						
« Molybdenite 1.00-2.00% 0.01cm» Fine fracture fill with pyrite, more prominent and prevalent within k-feld alteration patches and quartz veins.												82.50	84.50	2.00	196798	0.21	0.60	288	2.00	10						
« 76.70- 78.50 Molybdenite 3.00%» Wrapping k-feld alteration patches and more prevalent within silica alteration.												84.50	86.50	2.00	196799	0.17	1.00	262	3.00	10						
< @ 81.60 Vein 55.00° 5.00cm > Quartz vein with minor carbonate and 20% pyrite along contacts. Fragments of wallrock with pyrite within vein.												84.50	86.50	2.00	196800											
< @ 91.20 Breccia 50.00° 100.00cm > Fragmental wispy textured with interstitial pyrite wispy veinlets with an almost dendritic texture, banded as well at 50 TCA.												86.50	88.50	2.00	196801	0.24	0.90	219	1.00	10						
« 125.84- 153.80 Silicification 3.00°» Strong silica alteration, megacryst still prominent,												88.50	90.50	2.00	196802	0.26	0.30	183	-1.00	10						
				90.50	91.20	0.70	196803	0.30	0.40	220	2.00	10														
				91.20	92.95	1.75	196804	0.42	0.70	390	6.00	60														
				92.95	94.95	2.00	196805	0.17	1.00	1700	21.00	10														
				94.95	97.00	2.05	196806	0.07	0.80	639	15.00	10														
				97.00	98.80	1.80	196807	0.12	0.60	460	5.00	10														
				98.80	100.40	1.60	196808	0.55	1.20	793	9.00	10														
				100.40	101.80	1.40	196809																			
				101.80	101.80	0.00	196810																			
				101.80	104.00	2.20	196811	0.35	1.20	1530	20.00	10														
				104.00	105.00	1.00	196812	0.55	1.10	306	7.00	-10														
				105.00	106.50	1.50	196813	0.25	0.30	147	7.00	70														

2008/02/04

Equity Engineering Ltd.

Page 6 of 12

Project: Voigtberg

Hole Number: VGT07-08

From	To	Rocktype & Description	Py	Sp	Op	Mo	Ca	Kf	Mns	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm			
			0	50	0	20	0	15	0	15	0	4	0	4							
		« Pyrite 8.00%» Fine disseminated grians and wispy or smeared fracture fill											106.50	108.00	1.50	196814	0.20	1.40	544	28.00	80
		« K-feldspar 2.00-3.00%» variable pink orange alteration of the megacrysts											108.00	109.74	1.74	196815	0.20	4.10	472	43.00	50
		« 148.96- 153.80 Sericite 2.00%» Stark white megacrysts, much more vibrant then a lot of the k-feld altered megacrysts.											109.74	111.44	1.70	196816	0.12	1.30	304	10.00	10
		« Calcite 1.00%» small veins at 25 to 75 TCA. density @ 1/m											111.44	113.10	1.66	196817	0.12	1.50	296	18.00	10
		< @ 130.79 Fault 50.00° 0.50cm > Grey clay fault gouge weakly competent.											113.10	115.12	2.02	196818	0.03	0.20	159	3.00	-10
		« 142.42- 145.19 Rafted fragment Andesite 40-60%» Massive with wispy pyrite.											115.12	117.12	2.00	196819	0.04	-0.20	151	1.00	-10
		< @ 150.36 Vein 30.00° 1.00cm > Semi-massive pyrite, quartz vein.											115.12	117.12	2.00	196820					
		< @ 92.25 Vein 35.00° 15.00cm > Semi -massive pyrite and quartz vein with flow texture / banding and clast wrapping.											117.12	118.66	1.54	196821	0.04	0.30	193	4.00	10
		« 81.50- 98.20 K-feldspar 1.00%» Less frequent altered patches.																			
		« Silicification 3.00%» Flood silica.																			
		< @ 97.00 Vein 20.00° 1.50cm > Carbonate, quartz vein with fine-grained grain disseminated pyrite.																			
		« 97.00- 103.55 Silicification 3.00-4.00%» Flood silica, massive and pervasive.																			
		< @ 99.38 Vein 60.00° 0.50cm > Vuggy medium-grained to coarse-grained grain quartz with minor fracture fill carbonate.																			
		« 99.45- 100.00 Chalcopyrite 0.50%» Very fine-grained grain chalcopyrite in more fractured core with pyrite.																			
		« Pyrite 4.00%» As wispy veinets.																			
		« 100.40- 101.80 Pyrite 25.00%» As wispy veinlets @ 40 TCA.																			
		« 103.80- 106.15 Silicification 2.00-3.00%» Less intense flood silica alteration.																			
		« Calcite 1.00%» Minor carbonate fracture fill.																			
		« 104.00- 105.00 Pyrite 12.00%» As wispy blebs with banding @ 40 TCA with silica alteration bands.																			
		« 105.00- 109.74 Pyrite 8.00%» As wispy blebs with banding @ 40 TCA with silica alteration bands.																			
		« 106.60- 109.10 Pyrite 15.00%» As wispy blebs with banding @ 40 to 50 TCA with silica alteration bands.																			
		< @ 106.55 Vein 50.00° 8.00cm > Grey translucent quartz vein																			
		« 107.30- 107.40 Molybdenite 0.50%» Fine wispy molybdenite associated with a strongly altered k-feld bleb.																			
		« K-feldspar 3.00%»																			
		« Sphalerite 0.10%» Possible sphalerite, or red oxidation coating on pyrite?																			
		Or Bornite on chalcopyrite wisp. Ultra fine-grained grain, single grain.																			

Project: Voigtberg

Hole Number: VGT07-08

From	To	Rocktype	& Description	Qz	Sp	Ep	Mo	Ca	Kf	Mns	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm	
< @ 108.80 Vein 60.00° 3.00cm > True width, grey quartz vein.				0	50	0	20	0	15	0	15	0	4	0	4					
« 108.95- 109.15 K-feldspar 3.00*» As fragmental alteration.																				
< @ 109.74 Fault 30.00° 0.50cm > Fault gouge, semi-brittle grey clay.																				
< @ 112.25 Vein 5.00° 0.50cm > Wispy pyrite vein.																				
« 109.74- 112.25 Pyrite 6.00%» As wispy veinlets @ flat angles TCA and as fine-grained fracture fill and minor disseminations.																				
« 109.15- 118.66 Silicification 2.00-3.00*» Pervasive silica alteration.																				
« Calcite 1.00*» As small variable angle veins and blebs.																				
< @ 110.35 Contact 0° > Interfingered feldspar megacrystic dacite between 110.35 and 118.66 in intervals of 20 to 40cm.																				
« 91.20- 92.95 Pyrite 20.00%»																				
118.66	157.30	Monzonite																		
Fine grain with megacrystic feldspar phenocrysts between .5cm to 5cm. variable intensity of megacrysts from 10% to 30%. Moderate to strong silica altered. K-feldspar alteration, megacrysts altered to orange-buff-pink. Unit overall grey to dark grey with pink to orange megacrysts.																				
« 118.66- 125.84 Pyrite 7.00%» As very fine-grained grain interstitial disseminated grains and as wispy veins at moderate to steep angles TCA.																				
« K-feldspar 2.00*»																				
« Silicification 3.00*»																				
« Calcite 1.00*» As small veins at variable angels TCA (25 to 80).																				
< @ 122.55 Vein 70.00° 3.50cm > True width, brecciated quartz, mnzt, pyrite vein (crackle breccia).																				
« 123.45- 124.10 Silicification 4.00*» Interfingered breccia																				
« 150.20- 150.60 Molybdenite 1.00%» As fracture fill predominantly within the larger megacrysts.																				
< @ 157.30 Contact 20.00° > Interfingering of units with small intervals of andesite flows above this contact.																				
118.66	119.36			0.70	196822	0.06	0.30	168	1.00	-10										
119.36	120.50			1.14	196823	0.11	0.40	328	4.00	10										
120.50	122.00			1.50	196824	0.03	0.40	211	4.00	10										
122.00	124.00			2.00	196825	0.06	0.40	165	2.00	10										
124.00	126.00			2.00	196826	0.05	0.20	173	2.00	-10										
126.00	128.00			2.00	196827	0.49	1.80	510	4.00	-10										
128.00	130.00			2.00	196828	0.28	0.90	332	3.00	-10										
130.00	132.00			2.00	196829	0.06	0.40	86	2.00	-10										
130.00	132.00			2.00	196830															
132.00	134.00			2.00	196831	0.05	-0.20	105	3.00	-10										
134.00	136.00			2.00	196832	0.04	-0.20	117	4.00	-10										
136.00	138.00			2.00	196833	0.02	-0.20	82	3.00	-10										
138.00	140.00			2.00	196834	0.02	-0.20	84	2.00	-10										
140.00	141.20			1.20	196835	0.07	0.30	113	3.00	-10										
141.20	142.42			1.22	196836	0.04	0.40	113	3.00	-10										
142.42	145.19			2.77	196837	0.49	2.40	601	6.00	-10										
145.19	147.00			1.81	196838	0.03	-0.20	61	3.00	-10										
147.00	149.00			2.00	196839	0.05	-0.20	120	4.00	-10										
149.00	149.00			0.00	196840															
149.00	151.00			2.00	196841	0.08	-0.20	91	4.00	-10										
151.00	153.00			2.00	196842	0.04	0.20	84	4.00	-10										
153.00	155.04			2.04	196843	0.04	-0.20	63	3.00	-10										
155.04	157.30			2.26	196844	0.07	0.40	82	2.00	-10										

Project: Voigtberg				Hole Number: VGT07-08															
From	To	Rocktype	& Description	Py	Sp	Op	Mn	Ca	Kf	Ms	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm

Project: Voigtberg				Hole Number: VGT07-08																							
From	To	Rocktype	& Description	py	sp	ep	mo	ca	kf	ms	4	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm							
< @ 164.32 Contact 10.00° > Sharp contact, with fine-grained grain disseminated pyrite. « Silicification 3.00*» « Pyrite 3.00-5.00%» As small wispy veinlets and fracture fill. « Calcite 1.00*» Small veins at 15 to 80 TCA, and blebby fracture fill. « K-feldspar 1.00*» Megacryst alteration.				0	50	0	20	0	15	0	15	10	4	0	4	0											
				167.00	167.88	Dacite									167.00	167.88	0.88	196851	0.02	0.30	214	-1.00	-10				
				Fine grain grey to dark grey with 0.2cm orthoclase phenocrysts, 25%. Weak epidote altered patch, light pistacio green interval with cross cutting quartz-pyrite and carbonate veins. < @ 167.30 Vein 60.00° 0.50cm > 3 spaced carbonate veins, 2 cut by carbonate vein @ 55 TCA opposite orientation. < @ 167.35 Vein 15.00° 0.10cm > Quartz pyrite vein, cut by both sets of carbonate veins. Part of vein set over 15cm of epidote altered interval « 167.30- 167.60 Epidote 1.00*» < @ 167.88 Contact 80.00° > Sharp lower contact with megacrystic monzonite.																							
								167.88	169.10	Monzonite									167.88	169.10	1.22	196852	0.03	0.50	87	1.00	10
								Fine grain with megacrystic feldspar phenocrysts between 0.5cm to 5cm. Variable intensity of megacrysts from 10% to 30%. Moderate to strong silica altered. K-feldspar alteration, megacrysts altered to orange-buff-pink. Unit overall grey to dark grey with pink to orange megacrysts. « Pyrite 3.00%» Fine grain disseminated and small fracture fill and veinlets, variable angle TCA. < @ 168.70 Vein 45.00° 0.80cm > Carbonate vein with a bleb of chalcopyrite.																			
169.10	195.80	Dacite																	169.10	171.15	2.05	196853	0.41	2.90	291	24.00	-10
Fine grain grey to dark grey with 0.2cm quartz/orthoclase(?) and feldspar (vitreous/pinkish purple) phenocrysts, 25%, unless overprinted by alteration. Weak to moderate sericite altered, banded, patches, light pistacio green interval with cross cutting quartz-pyrite and carbonate veins. Weak to moderate silica alteration. Fine grain disseminated and veinlets of pyrite. « 169.84- 171.50 Sericite 2.00*» Wispy flow textured sericite alteration with moderate silica alteration. « Silicification 2.00*»																											
				171.15	173.00														171.15	173.00	1.85	196854	0.14	3.20	290	2.00	-10
				173.00	175.00										173.00	175.00	2.00	196855	0.65	2.40	241	3.00	-10				
				175.00	177.00										175.00	177.00	2.00	196856	0.23	3.40	131	2.00	-10				
				177.00	179.36										177.00	179.36	2.36	196857	0.14	0.70	170	3.00	-10				
				179.36	181.25										179.36	181.25	1.89	196858	0.10	0.50	168	1.00	-10				
				181.25	183.03										181.25	183.03	1.78	196859	0.24	1.60	112	1.00	-10				
183.03	185.00											183.03	185.00	1.97	196861	0.09	0.20	89	1.00	-10							
185.00	187.00											185.00	187.00	2.00	196862	0.06	0.60	166	10.00	-10							

2008/02/04

Equity Engineering Ltd.

Page 10 of 12

Project: Voigtberg				Hole Number: VGT07-08																
From	To	Rocktype	& Description	Py	Sp	Op	Mo	Cg	Kf	Mg		From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
« Pyrite 3.00%»												187.00	188.48	1.48	196863	0.13	0.50	289	2.00	-10
< @ 173.20 Vein 25.00° 6.00cm > True width measured, banded quartz sericite altered band with fine-grained disseminated pyrite, 12%.												188.48	189.48	1.00	196864	0.24	0.90	477	4.00	-10
< @ 172.00 Fault 30.00° 2.00cm > Grey clay fault gouge.												189.48	191.52	2.04	196865	0.11	0.50	72	5.00	-10
< @ 173.60 Vein 15.00° 2.50cm > True width measured, banded quartz sericite altered band with fine-grained disseminated pyrite, 8%.												191.52	193.50	1.98	196866	0.30	1.30	586	3.00	-10
< @ 174.00 Vein 35.00° 15.00cm > True width measured, banded quartz sericite altered band with fine-grained disseminated pyrite, 10%. Small carbonate stringers within unit.												193.50	194.80	1.30	196867	0.05	0.20	104	1.00	-10
« 177.00- 179.70 K-feldspar 3.00*» Dark salmon pink to orange altered interval, with fragmented brecciated texture with quartz pyrite interstitially to alteration fragments.												194.80	195.80	1.00	196868	0.02	0.40	184	-1.00	10
« 179.70- 181.82 Silicification 2.00*»																				
« Sericite 2.00*»																				
« Pyrite 4.00%»																				
« 181.35- 181.85 K-feldspar 1.00*» Light pink to orange interval.																				
« 182.40- 182.60 K-feldspar 3.00*» Dark pink to red.																				
« 183.05- 184.80 K-feldspar 2.00-3.00*» Pervasive fragmental alteration with small quartz and pyrite fracture fill with lesser carbonate veining at steep angles TCA.																				
< @ 188.10 Vein 40.00° 6.50cm > Quartz vein, with brecciated wallrock fragments.																				
« 188.55- 189.48 Pyrite 6.00%» As fine-grained vein fracture fill with quartz.																				
« 189.48- 194.90 Silicification 1.00-2.00*» Pervasive silica alteration.																				
« Sericite 1.00-2.00*» Pervasive alteration.																				
« Pyrite 3.00%» Fine grain disseminations and fracture fill.																				
< @ 192.32 Fault 40.00° 0.10cm > Grey clay rich fault gouge.																				
< @ 192.42 Fault 40.00° 0.10cm > Grey clay rich fault gouge.																				
« 192.55- 195.66 K-feldspar 2.00*» Dark pink to red pervasive alteration with patchy weak sericite alteration and weak to moderate silica alteration.																				
195.80	200.64	Monzonite										195.80	197.60	1.80	196869	0.10	0.60	222	6.00	-10
Fine to very fine-grained grain, grey to dark grey with variable sized megacrysts between 0.5cm and 3cm width. 3% pyrite as fine-grained fracture fill and weakly disseminated grains. Weak to moderate silica alteration, moderate k-feld alteration, and weak spotty sericite alteration.												197.60	199.00	1.40	196871	0.15	0.60	737	5.00	-10
« Pyrite 3.00%»												199.00	200.64	1.64	196872	0.09	0.60	507	2.00	-10

2008/02/04

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Page 11 of 12

Project: Voigtberg

Hole Number: VGT07-08

From	To	Rocktype	& Description	Si	Sp	Op	Mn	Ca	Mg	Fe	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
« K-feldspar 2.00*»				0	50	0	20	0	15	0	15	0	4	0	4	0	4		
« Silicification 1.00-2.00*»																			
« Sericite 1.00*»																			
< @ 195.80 Contact 25.00° >																			
200.64	200.64		End of Hole																

Drill Log Legend



Andesite

Andesite



Breccia - Collapse(?)



Casing



Dacite



End of Hole



Monzonite



DRILL LOG

Project: Voigtberg	Collar Elevation (m): 1624.0
Hole VGT07-09	Azimuth (°): 360
Location: 6332246 m North 403369 m East	Dip (°): -50.0
Logged by: R.Kutluoglu	Length (m): 203.68
Drilled by: Apex Drilling	Horizontal Projection:
Assayed by: ALS Chemex	Vertical Projection:
Core Size: NQ	
Date Started: 2007/08/25	
Date Completed: 2007/08/25	
Dip Tests By: Acid Test	
Objective This hole is the northernmost hole drilled on the property to date, it tests the polymetallic geochemical anomaly referred to as the North Zone as well as testing the edge of a chargeability anomaly	

Summary Log:

From: 0m To: 4.26m Casing
 From: 4.26m To: 21.3m Andesite
 From: 21.3m To: 107.1m Dacite
 From: 107.1m To: 146.76m Andesite
 From: 146.76m To: 156.27m Andesite
 From: 156.27m To: 203.68m Andesite
 203.68m EOH



DRILL LOG

Project: Voigtberg

Hole ID: VGT07-09

Downhole surveys:

Depth	Dip	Azimuth
0.00	-49.85	360.00
100.30	-44.00	360.00
197.60	-47.00	360.00

Project: Voigtberg											Hole Number: VGT07-09									
From	To	Rocktype	& Description	py	sp	cp	mp	cp	lt	ms	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm	
0.00	4.26	Casing																		
4.26	21.30	Andesite									4.26	6.08	1.82	196873	0.18	2.20	130	157.00	-10	
		Lapilli Tuff: Fine grain, grey with variably white, grey and black fragments, angular to sub angular with variable size between 0.5cm and 2cm.									6.08	9.12	3.04	196874	0.13	-0.20	127	653.00	-10	
		« 4.26- 8.32 Silicification 3.00*» fragmented core with strong silica alteration to segments with good recovery, remainder of interval is light coloured rust rubbled core.									9.12	12.16	3.04	196875	0.15	-0.20	92	725.00	-10	
		« 15.20- 18.75 Albite 2.0%» Possible albite alteration as pervasive patches cutting through core at variable angles and encompassing core at centre of interval.									12.16	15.20	3.04	196876	0.12	-0.20	177	362.00	10	
		« 4.26- 21.30 Limonite 2.00*» rusty fractured core, very poor recovery, very rubbled core.									15.20	18.26	3.06	196877	0.21	1.50	68	505.00	-10	
		< @ 18.75 Fault 40.00° 20.00cm > rubbled rusty fractured dirt.									18.26	21.30	3.04	196878	0.12	0.90	188	33.00	-10	
21.30	107.10	Dacite									21.30	24.32	3.02	196879	0.11	1.50	135	13.00	-10	
		Massive flow. Fine to very fine-grained grain, grey to dark grey, highly fractured with rusty rubbled intervals throughout unit. consisting of limeonite, geothite, siderite (?), jarosite and hematite staining, a melange of alteration.									21.30	24.32	3.02	196880						
		« Pyrite 1.00%» Trace fine-grained disseminated grains.									24.32	26.32	2.00	196881	0.13	1.70	146	27.00	-10	
		< @ 30.45 Breccia 60.00-50.00° 35.00cm > Carbonate breccia with andesite subangular to angular clasts of andesite, cut by late carbonate vein.									26.32	30.40	4.08	196882	0.24	2.80	171	19.00	-10	
		< @ 30.60 Vein 30.00° 0.50cm >									30.40	33.44	3.04	196883	0.14	0.40	149	33.00	-10	
		« 42.00- 48.75 Calcite 1.00-2.00*» Patchy blebby carbonate alteration.									33.44	36.48	3.04	196884	0.28	0.80	193	27.00	-10	
		« 42.70- 42.90 Silicification 3.00*» Sharp contact with carbonate alteration patch, 75 TCA, sharp contact with intense flood silica alteration @ 75 TCA.									36.48	39.52	3.04	196885	0.20	1.50	138	26.00	-10	
		« 42.90- 43.40 Silicification 4.00*» Flood silica , total textural overprint. Rubbled core.									39.52	42.56	3.04	196886	0.17	1.10	169	16.00	-10	
		« 43.40- 50.78 Silicification 3.00*» Sharp lower contact with intense flood silica @ 40 TCA.									42.56	45.60	3.04	196887	0.25	-0.20	126	61.00	-10	
		« 55.67- 55.92 Calcite 2.00*» Steeply dipping stockwork of carbonate									45.60	48.64	3.04	196888	0.09	-0.20	87	11.00	-10	
											48.64	50.75	2.11	196889	0.08	0.20	111	6.00	-10	
											48.64	50.75	2.11	196890						
											50.75	52.40	1.65	196891	0.06	-0.20	123	5.00	-10	
											52.40	54.75	2.35	196892	0.15	-0.20	142	12.00	-10	
											54.75	56.75	2.00	196893	0.10	-0.20	126	7.00	-10	
											56.75	58.75	2.00	196894	0.05	-0.20	137	5.00	-10	
											58.75	60.80	2.05	196895	0.06	-0.20	107	3.00	-10	
											60.80	62.80	2.00	196896	0.08	-0.20	96	3.00	-10	
											62.80	64.71	1.91	196897	0.08	-0.20	100	36.00	-10	

2008/02/04

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Page 1 of 7

Project: Voigtberg		Hole Number: VGT07-09																		
From	To	Rocktype	& Description	py	sp	tp	mp	cp	qt	mg		From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
veining.												64.71	66.88	2.17	196898	0.11	0.30	99	22.00	-10
55.92- 56.08 Small pseudoleucite phenocrysts stockwork.												66.88	68.88	2.00	196899	0.17	-0.20	73	9.00	-10
« 54.00- 85.87 Pyrite 6.00-7.00%» Very fine-grained grain disseminated pyrite and fine-grained wispy veinlets.												68.88	68.88	0.00	196900					
< @ 60.85 Breccia 20.00-25.00° 45.00cm > Carbonate breccia with minor silica component, clast are angular to subangular wallrock material.												68.88	72.96	4.08	196901	0.10	-0.20	102	18.00	-10
< @ 63.72 Breccia 75.00° 30.00cm > Carbonate breccia with minor silica component, clast are angular to subangular wallrock material.												72.96	74.50	1.54	196902	0.09	4.20	200	63.00	-10
< @ 64.30 Breccia 35.00° 20.00cm > Weakly brecciated, clast supported. Carbonate and silica matrix with fine-grained grain disseminated pyrite.												74.50	76.00	1.50	196903	0.11	1.40	156	15.00	-10
< @ 54.00 Breccia 20.00° 30.00cm > Silica carbonate breccia with rounded to subrounded clasts of wallrock.												76.00	77.60	1.60	196904	0.14	0.80	193	10.00	-10
< @ 65.14 Breccia 80.00° 170.00cm > Grey silica carbonate matric with rounded to subrounded fragments of wallrock, quartz and calcite. Fine veinlets of pyrite in matrix and minor clast wrapping.												77.60	79.04	1.44	196905	0.28	1.90	262	19.00	-10
< @ 67.08 Vein 40.00° 0.80cm > Quartz carbonate vein set with blebby pyrite.												79.04	81.04	2.00	196906	0.14	0.70	184	19.00	-10
< @ 67.23 Breccia 85.00° 60.00cm > Silica breccia with layered banding texture and minor subangular clasts of wallrock and minor fine-grained grain disseminated pyrite.												81.04	82.08	1.04	196907	0.12	0.80	181	10.00	-10
< @ 74.53 Vein 50.00° 3.00cm > Sphalerite ? and pyrite veinlet set, very fine-grained grain disseminated.												82.08	83.28	1.20	196908	0.17	2.60	182	32.00	-10
< @ 73.00 Fault 10.00° 5.00cm > Brown to light brown soils and rubbled core.												83.28	85.28	2.00	196909	0.09	2.00	178	21.00	-10
« 77.60- 78.70 Lapilli Tuff Andesite 20-50°» Fragments between 0.5cm and 3cm, obscured texture by carbonate and silica fragments and alteration. Patchy vuggy pitted core with rusty surfaces.												83.28	85.28	2.00	196910					
< @ 83.27 Vein 50.00° 3.00cm > Quartz carbonate vein with fine-grained grain pyrite.												85.28	87.28	2.00	196911	0.17	1.50	118	6.00	-10
< @ 85.39 Vein 50.00° 5.50cm > Carbonate, iron carbonate vein with weak flow banding texture and small wallrock fragments.												87.28	88.16	0.88	196912	0.12	1.80	124	8.00	-10
< @ 85.52 Breccia 90.00-85.00° 54.00cm > Carbonate quartz breccia cut by later rusty fracture, cutting @ 10 TCA.												88.16	90.16	2.00	196913	0.34	1.90	169	10.00	-10
< @ 87.50 Vein 40.00° 0.10cm > Stockwork of micro fracture fill quartz with minor pyrite and possible fine-grained grain black sphalerite?												90.16	92.20	2.04	196914	0.19	1.70	170	20.00	10
< @ 87.55 Vein 40.00° 0.10cm > Carbonate veins, cut by quartz pyrite veins.												92.20	94.24	2.04	196915	0.11	1.00	166	18.00	-10
< @ 87.60 Vein 30.00° 0.10cm > Carbonate veins, cutting quartz pyrite veins.												94.24	96.24	2.00	196916	0.08	1.20	186	21.00	-10
« 88.16- 109.00 Silicification 3.00°»												96.24	98.24	2.00	196917	0.14	1.10	190	14.00	-10
												98.24	100.32	2.08	196918	0.08	1.30	341	26.00	-10
												100.32	102.32	2.00	196919	0.04	0.50	141	11.00	-10
												100.32	102.32	2.00	196920					
												102.32	104.32	2.00	196921	0.04	0.70	144	14.00	-10
												104.32	106.40	2.08	196922	0.04	0.50	125	16.00	-10
												106.40	107.10	0.70	196923	0.04	0.70	103	10.00	-10

Project: Voigtberg

Hole Number: VGT07-09

From	To	Rocktype	& Description	Py	Sp	Op	Mo	Ca	Mt	Mns	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
< @ 90.90 Breccia 70.00° 30.00cm >		Quartz carbonate alteration with brecciated texture.																	
« Pyrite 5.00%»		As fine-grained grain disseminations.																	
« 91.30- 91.50 Calcite 2.00*»		Blebby patchy carbonate alteration/veins @ steep angles to the core as a stockwork.																	
< @ 91.50 Vein 70.00° 2.00cm >		Iron carbonate pinkish opaque white vein.																	
< @ 94.24 Vein 70.00° 4.00cm >		True width. Opaque white carbonate vein.																	
« 92.50- 104.00 Calcite 1.00-2.00*»		Carbonate stringers, veinlets and blebby veins at variable moderate angles TCA, variable width between 0.1cm and 2cm.																	
« 100.00- 100.32 Biotite 1.00-2.00*»		Medium to coarse-grained grain biotite, along fracture planes.																	
< @ 100.10 Fault 80.00-90.00° 5.00cm >		Rubbled rusty core and mud.																	
« 103.00- 103.35 Hematite 5.00%»		Rusty coated core, as alteration undulatory front, pervasive in core with some persistent primary massive dacite still visible.																	
« 104.30- 104.55 Hematite 5.00%»		Pitted rusty rubbled core, possible siderite?																	
< @ 105.00 Fault 80.00° >		Rubbled rusty core and soils.																	
< @ 107.10 Fault 70.00° >		Rusty rubbled core.																	
107.10	146.76	Andesite									107.10	109.44	2.34	196924	0.06	1.10	141	24.00	-10
Fine grain, grey to dark grey, rubbled upper contact and upper portion of interval with rusty fracture coating and pervasive rusty alteration.											109.44	112.48	3.04	196925	0.14	1.50	129	51.00	-10
orthoclase(?) phenocrysts 0.5cm and @ 25% density where visible.											112.48	115.52	3.04	196926	0.10	1.50	177	149.00	-10
« 109.55- 112.48 Hematite 20.00%»		Severely rubbled core with gritty soils, light to dark brown with brick red gossanous staining. No primary texture, non-carbonatious.									115.52	120.40	4.88	196927	0.06	0.80	289	99.00	-10
< @ 109.34 Vein 15.00° 1.00cm >		Pitted, vuggy, coarse-grained grained rusty quartz vein.									120.40	124.64	4.24	196928	0.05	1.10	193	91.00	-10
« 112.60- 113.00 Hematite 5.00%»		Pitted vuggy hematite stained core.									124.64	126.64	2.00	196929	0.06	1.10	138	77.00	-10
« 112.50- 113.35 Calcite 2.00-3.00*»		Carbonate stockwork and breccia textured interval.									124.64	126.64	2.00	196930					
« 113.35- 116.85 Hematite 25.00%»		Pervasive core alteration with patchy									126.64	127.68	1.04	196931	0.10	1.00	140	33.00	-10
											127.68	130.72	3.04	196932	0.10	1.30	172	45.00	-10
											130.72	133.76	3.04	196933	0.05	1.00	204	62.00	-10
											133.76	136.80	3.04	196934	0.02	0.60	147	37.00	-10
											136.80	139.84	3.04	196935	0.03	0.90	132	15.00	10
											139.84	142.88	3.04	196936	0.05	0.50	162	20.00	-10

Project: Voigtberg											Hole Number: VGT07-09								
From	To	Rocktype	& Description	Py	Sp	Op	Mo	Ca	Mt	Mns	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
			unaltered intervals, with small patchy sericite/silica? alteration.								142.88	144.88	2.00	196937	0.03	0.40	178	19.00	-10
			< @ 115.65 Fault 85.00° 15.00cm > Brown pebbles and soils.								144.88	146.76	1.88	196938	0.04	0.60	208	37.00	-10
			« 116.85- 117.40 Calcite 2.00-3.00*» Fragments of rafted carbonate alteration and wispy blebby breccia textured interval.																
			< @ 118.66 Fault 90.00° 25.00cm > Brown sandy clay, solid mud interval.																
			« 119.00- 120.40 Hematite 25.00%» Pervasive core alteration with patchy unaltered intervals, with small patchy sericite/silica? alteration.																
			< @ 121.40 Vein 80.00° 0.50cm > Rusty medium-grained to coarse-grained grain quartz vein.																
			< @ 121.60 Vein 40.00° 0.10cm > Small rusty pyrite vein set.																
			< @ 122.10 Vein 75.00° 2.00cm > Quartz vein with blebby fine-grained grain subhedral pyrite.																
			< @ 122.40 Vein 50.00° 3.00cm > Quartz brecciated vein with blebby fine-grained grain pyrite.																
			« 121.00- 130.72 Silicification 3.00*» overall compitent interval with strong silica alteration.																
			< @ 125.70 Breccia 20.00° 20.00cm > Quartz carbonate brecciated vein.																
			< @ 126.28 Breccia 40.00° 45.00cm > Carbonate quartz breccia, matrix dominated with angular wallrock fragments.																
			< @ 127.93 Vein 60.00-90.00° 5.00cm > Brecciated carbonate quartz, undulatory vein, matrix dominated, with angular wall rock fragments.																
			< @ 127.48 Vein 65.00° 20.00cm > Brecciated vein, clast dominated crackle breccia texture.																
			Rubbled core from 127.92 to 129.00m weakly oxidized core, with weak gossanous staining.																
			< @ 130.28 Vein 10.00° 4.00cm > True width, brecciated quartz carbonate vein, matrix dominated with small, 1 to 2cm angular fragments of wallrock.																
			Rubbled Core from 130.72 to 131.50m weakly gossanous.																
			133.00- 136.50 Orthoclase phenocrysts roughly 0.5 cm in diameter.																
			Pseudoleucite?																
			Rubbled core from 135.00 to 137.00cm mostly rubbled Dacite with minimal rusty fracture planes, minor grey clays																
			< @ 137.00 Fault 85.00° 7.00cm > Grey clay fault gouge.																
			« 137.00- 147.14 Silicification 3.00-4.00*» Pervasive silica alteration with patches of intense alteration to grey glasy overprinting with small fractures with pyrite or carbonate alteration.																
			« Pyrite 7.00%» « Calcite 1.00*»																
			< @ 144.90 Vein 70.00° 2.50cm > Carbonate vein with wispy fragments of																

2008/02/04

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Page 4 of 7

Project: Voigtberg										Hole Number: VGT07-09									
From	To	Rocktype	& Description	Py	Sp	Op	Mo	Ca	Mt	Mns	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
		wallrock.																	
146.76	156.27	Andesite	Lapilli Tuff: Fine grin, grey with variably white, grey and black fragments, angular to sub angular with variable size between 0.5cm and 6cm. Shadowed fragments in more silica altered intervals. < @ 143.76 Contact 80.00° > Sharp contact with carbonate quartz breccia. < @ 143.82 Fault 35.00° 3.00cm > Brown soils and minor grey clays along sharp contacts with wallrock, fault gouge. « Silicification 2.00-3.00*» « Pyrite 10.00%» As very fine-grained grain euhedral disseminations and as small wispy veinlets and fracture fill at variable angles TCA. « Calcite 1.00*» As small 0.2cm veins. and small narrow brecciated intervals. < @ 149.00 Breccia 90.00° 3.00cm > Carbonate brecciated texture. < @ 151.95 Breccia 30.00-50.00° 22.00cm > Carbonate quartz matrix dominated breccia with rounded to subrounded wallrock fragments.																
156.27	203.68	Andesite	Massive flow with weak to moderate small orthoclase (?) phenocrysts 0.5cm in size within a very fine-grained grain grey to light grey. Overall moderate to strong alteration intervals, complete overprinting texture. « 156.27- 159.86 Silicification 2.00*» Moderate silica alteration. « Pyrite 7.00%» Fine grain disseminated and minor veinlets/fracture fill. < @157.80 Vein 70.00° 0.30cm > Carbonate vein with fine-grained pyrite along contact. < @ 158.35 Vein 90.00-70.00° 1.00cm > Carbonate vein. « 158.80- 159.86 Calcite 2.00*» Fracture fill carbonate alteration and moderate to steeply dipping veins between 0.4cm to 6cm < @ 158.36 Vein 50.00° 6.00cm > Carbonate with secondary iron carbonate vein cutting it @ 90 TCA. « 159.66- 161.00 Silicification 3.00*» Flood silica. « Pyrite 12.00%» Subhedral to anhedral fine-grained disseminated pyrite. « 161.67- 162.47 Calcite 2.00-3.00*» Carbonate and iron carbonate veins and microfracture fill, veins generally oriented between 50 and 75 TCA. < @ 163.66 Vein 35.00° 1.00-3.00cm > Carbonate with minor 3% pyrite. < @ 164.16 Fault 55.00° 30.00cm > Grey rubbled core with clay coating. « 164.35- 166.20 Calcite 2.00*» Microfracture fill carbonate alteration and weakly pervasive alteration. « Silicification 2.00*»																
146.76	148.96										146.76	148.96	2.20	196939	0.04	0.60	210	32.00	-10
146.76	148.96										146.76	148.96	2.20	196940					
148.96	151.00										148.96	151.00	2.04	196941	0.09	0.90	214	63.00	-10
151.00	153.00										151.00	153.00	2.00	196942	0.07	0.60	151	290.00	-10
153.00	155.04										153.00	155.04	2.04	196943	0.07	0.70	241	52.00	-10
155.04	156.27										155.04	156.27	1.23	196944	0.14	1.30	302	28.00	-10
156.27	158.08										156.27	158.08	1.81	196945	0.06	0.70	152	22.00	-10
158.08	159.96										158.08	159.96	1.88	196946	0.07	0.60	197	11.00	-10
159.96	161.67										159.96	161.67	1.71	196947	0.03	0.70	110	10.00	-10
161.67	162.47										161.67	162.47	0.80	196948	0.05	0.60	201	27.00	-10
162.47	164.16										162.47	164.16	1.69	196949	0.03	0.80	237	21.00	-10
162.47	164.16										162.47	164.16	1.69	196950					
164.16	166.20										164.16	166.20	2.04	196951	0.05	10.10	229	16.00	40
166.20	167.60										166.20	167.60	1.40	196952	0.03	0.50	135	11.00	-10
167.60	168.10										167.60	168.10	0.50	196953	0.33	1.80	42	7.00	-10
168.10	170.18										168.10	170.18	2.08	196954	0.04	0.60	185	25.00	-10
170.18	172.20										170.18	172.20	2.02	196955	0.05	0.50	228	29.00	-10
172.20	174.20										172.20	174.20	2.00	196956	0.02	-0.20	146	37.00	-10
174.20	176.32										174.20	176.32	2.12	196957	0.05	0.50	188	556.00	10
176.32	176.97										176.32	176.97	0.65	196958	0.07	1.40	77	2090.00	-10
176.97	178.00										176.97	178.00	1.03	196959	0.14	0.90	127	205.00	-10
178.00	178.00										178.00	178.00	0.00	196960					
178.00	180.66										178.00	180.66	2.66	196961	0.04	0.90	208	39.00	-10
180.66	183.23										180.66	183.23	2.57	196962	0.02	0.60	67	1065.00	-10
183.23	184.44										183.23	184.44	1.21	196963	0.06	0.60	76	102.00	-10
184.44	187.44										184.44	187.44	2.00	196964	0.05	0.70	129	28.00	-10
187.44	189.44										187.44	189.44	2.00	196965	0.04	0.80	164	42.00	-10
189.44	191.52										189.44	191.52	2.08	196966	0.07	1.20	214	132.00	-10

Project: Voigtberg

Hole Number: VGT07-09

From	To	Rocktype & Description	Py	Sp	Op	Mo	Ca	Mt	Mns	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
166.20-	167.60	light grey interval, fine-grained orthoclase? phenocrysts. Rusty fractures, moderate angles TCA. (40-50).								191.52	193.25	1.73	196967	0.10	1.00	147	158.00	-10
« 167.55-	168.10	Calcite 3.00*» Pervasive carbonate alteration, contacts are sharp but undulatory, upper contact 30, lower contact 45.								193.25	195.00	1.75	196968	0.02	0.50	138	151.00	-10
« 168.10-	170.57	Silicification 2.00-3.00*» Pervasive silica alteration.								195.00	197.40	2.40	196969	0.09	0.60	123	56.00	-10
« Pyrite 8.00%»		wispy fracture fill and veinlets.								195.00	197.40	2.40	196970					
« 170.57-	175.28	Silicification 4.00*» Light grey, pervasive alteration.								197.40	199.74	2.34	196971	0.02	0.20	170	170.00	-10
« Pyrite 10.00%»										199.74	201.74	2.00	196972	0.01	-0.20	103	188.00	-10
« 173.00-	175.28	Silicification 3.00*» Flood silica with fragmental brecciated texture of unit, with fine-grained grain disseminated pyrite in fragments and interstitially.								201.74	203.68	1.94	196973	0.03	0.40	147	27.00	-10
« Pyrite 9.00%»																		
< @ 173.20	Vein 60.00° 0.60cm	> Carbonate quartz vein.																
« 176.32-	176.80	Molybdenite 0.50%» Trace very fine-grained grain disseminated molybdenite? Interstitially giving core slight bluish purple colouration.																
« 176.32-	177.32	Silicification 3.00-4.00*» Moderate to light grey , flood silica alteration with 1 to 3cm fragments of wallrock, giving breccia texture.																
< @ 76.96	Breccia 60.00-70.00° 37.00cm	> Quartz carbonate vein pair with brecciated texture and fragments of carbonate and small wallrock fragments.																
« 177.32-	180.66	Sericite 1.00-2.00*» Light grey interval with lesser silica alteration and possible sericite alteration.																
« Silicification 1.00-2.00*»																		
« Pyrite 10.00%»		As very fine-grained grain euhedral and anhedral disseminated pyrite and as wispy subhedral to anhedral vein fracture fill, variable angles between 0 and 90 TCA.																
« 180.66-	183.23	Molybdenite 0.50%» Possible very fine-grained grain disseminated molybdenite within a strong silica alteration interval.																
« Silicification 3.00*»		Flood silica with brecciated texture.																
« Pyrite 12.00%»																		
« 184.10-	185.40	Quartz 25.00%» White quartz brecciated veining at 30 to 85 TCA with pervasive silica alteration to intervals within interval.																
< @ 186.60	Vein 50.00-60.00° 0.50cm	> Vein set of 14 veins over 50cm. Quartz with minor fine-grained grain pyrite stringers within veins or fine-grained disseminated subhedral grains.																
« 184.10-	193.00	Pyrite 10.00%»																

Project: Voigtberg

Hole Number: VGT07-09

From	To	Rocktype & Description	py	sp	cp	mp	ca	kr	ms	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
			0	50	0	20	0	15	0	15	0	4	0	4	0	4		
		« Silicification 2.00-3.00*» Still fragmental textured but not as pronounced, more shadowed.																
		« 193.50- 194.10 Jarosite 3.00*» Rubbled fractured rusty core. Pitted with fine-grained grain disseminated pyrite and minor carbonate veinlets.																
		« 194.10- 195.50 Calcite 2.00*» Pervasive carbonate alteration.																
		« Pyrite 10.00%» Weak brecciated texture with pyrite within clasts and interstitially.																
		< @ 197.50 Fault 50.00-35.00° 140.00cm > Soils and rubbled core, brown with light manganese stained fragments. Probable cave in material - rods pulled, core barrel jammed with soils.																
		Brecciated texture interval from 198 to 200.00m, moderate silica alteration, possible weak sericite alteration? fine-grained disseminated pyrite.																
		« 198.00- 200.00 Pyrite 8.00%»																
		« Silicification 2.00*» « Sericite 1.00*»																
		« 200.00- 203.68 Pyrite 8.00%»																
		« Silicification 2.00*»																
		« Calcite 2.00*» Pervasive carbonate alteration.																
203.68	203.68	End of Hole																

Drill Log Legend



Andesite



Casing



End of Hole

Andesite



Dacite



DRILL LOG

Project: Voigtberg	Collar Elevation (m): 1701.0
Hole VGT07-10	Azimuth (°): 345
Location: 6331887 m North 403617 m East	Dip (°): -50.0
Logged by: R. Kutluoglu	Length (m): 136.80
Drilled by: Apex Driling	Horizontal Projection:
Assayed by: ALS Chemex	Vertical Projection:
Core Size: NQ	
Date Started: 2007/08/31	
Date Completed: 2007/08/31	
Dip Tests By: Acid Test	
Objective This hole is the 75m eastern step-out from VGT06-05 designed to test the continuity of mineralization in last year's drilling.	

Summary Log:

From: 0m To: 3.04m Casing
 From: 3.04m To: 25.6m Monzanite
 From: 25.6m To: 51.68m Dacite
 From: 51.68m To: 66.63m Andesite
 From: 66.63m To: 69.8m Monzanite
 From: 69.8m To: 129.42m Andesite
 From: 129.42m To: 136.8m Monzanite
 136.8m EOH



DRILL LOG

Project: Voigtberg

Hole ID: VGT07-10

Downhole surveys:

Depth	Dip	Azimuth
0.00	-50.10	345.00
100.32	-49.00	345.00

[illegible]

Project: Voigtberg										Hole Number: VGT07-10									
From	To	Rocktype	& Description	py	sp	cp	mp	ca	kr	ms	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
			undulatory contacts. Fine disseminated pyrite and possible sphalerite, or simply tarnished pyrite.																
			« 44.40- 45.00 Calcite 1.00-2.00*» carbonate vein set at steep angles																
			TCA, 60 to 85. fine-grained disseminated pyrite, weak brecciation.																
			« 45.00- 45.10 Molybdenite 1.00%» Trace fine-grained to very fine-grained grain fracture fill molybdenite.																
			« 45.00- 46.20 Calcite 2.00-3.00*» Pervasive carbonate alteration, with stockwork silica pyrite veining. « Pyrite 12.00%»																
			« Silicification 2.00*»																
51.68	66.63	Andesite									51.68	54.72	3.04	196992	0.45	5.80	190	76.00	-10
			Fine grain with small plagioclase phenocrysts showing weak sericitisation.								54.72	57.76	3.04	196993	1.25	30.10	231	174.00	-10
			Weakly banded with variable orientation from 30 to 70 TCA. Fine grain disseminated pyrite.								57.76	59.76	2.00	196994	0.14	0.40	148	5.00	-10
			« Pyrite 5.00%»								59.76	61.76	2.00	196995	0.23	2.30	89	10.00	-10
			« Sericite 1.00*»								61.76	63.84	2.08	196996	0.72	2.00	177	9.00	-10
			« Silicification 2.00*» Silica altered unit, weak to moderate flood silica.								63.84	65.24	1.40	196997	0.41	2.40	243	6.00	-10
			« 51.68- 66.63 Calcite 1.00-2.00* 0.10cm» Carbonate veining 30 to 40 TCA. Density @ 10 / m. Also pervasive carbonate alteration through out unit.								65.24	66.63	1.39	196998	0.94	6.30	164	9.00	-10
			< @ 57.00 Breccia > Rounded wallrock clast dominated with carbonate breccia.																
			Pyrite interstitial as fine-grained disseminated grains and small fracture fill pyrite.																
			« 57.00- 57.36 Molybdenite 1.00%» Possible trace molybdenite as fracture fill with pyrite, very fine-grained grain, purplish blue, not black or brown.																
66.63	69.80	Monzonite									66.63	68.60	1.97	196999	0.14	1.40	104	5.00	-10
			Pink feldspar phyrlic, fine-grained grain grey to light grey, weakly foliated @ 50 TCA. Feldspar phenocrysts between 0.2mm and 1cm in width.								66.63	68.60	1.97	197000					
			« Silicification 2.00*»								68.60	69.80	1.20	331251	1.69	7.30	130	24.00	-10
			« K-feldspar 1.00*» Weakly altered phenocrysts.																
			« Pyrite 2.00%» Fine to very fine-grained euhedral disseminated grains and fracture fill.																
			Pitted and rusty core @ 69m and at basal contact.																
69.80	129.42	Andesite									69.80	71.50	1.70	331252	1.08	5.80	167	21.00	-10
			Fine to very fine-grained grain, grey to light grey with banded and foliated texture oriented between 40 and 50 TCA. Pervasive carbonate alteration throughout unit. Fine carbonate veins cross cutting foliation/banding.								71.50	72.96	1.46	331253	0.19	1.90	145	5.00	-10
											72.96	74.75	1.79	331254	0.25	3.00	186	4.00	-10
											74.75	76.00	1.25	331255	0.10	1.00	128	22.00	-10

Project: Voigtberg										Hole Number: VGT07-10								
From	To	Rocktype & Description	py	sp	cp	mp	ca	kr	mg	From	To	Width	Sample	Au ppm	Ag ppm	Cu ppm	Mo ppm	Zn ppm
Very fine-grained grain disseminated pyrite throughout unit.			75							76.00	78.00	2.00	331256	0.12	0.80	106	6.00	-10
« Pyrite 7.00%»										78.00	80.00	2.00	331257	0.11	1.00	129	24.00	-10
« Calcite 2.00*»										80.00	82.08	2.08	331258	0.63	2.60	146	2.00	-10
« Silicification 2.00*»										82.08	84.00	1.92	331259	0.94	7.30	160	9.00	-10
< @ 70.80 Vein 15.00° 2.00cm > Brecciated carbonate vein set, with wallrock angular fragments.			80							84.00	84.00	0.00	331260					
< @ 75.00 Vein 60.00° 0.10cm > Vein set of carbonate veins.										84.00	85.62	1.62	331261	0.19	1.30	202	13.00	-10
< @ 69.80 Vein >										85.62	87.08	1.46	331262	0.15	0.90	155	6.00	-10
< @ 76.30 Vein 50.00° 0.10cm > Small carbonate vein set.										87.08	89.00	1.92	331263	0.11	0.80	124	6.00	-10
< @ 76.75 Vein 55.00° 1.00cm > Small carbonate vein.			85							89.00	91.20	2.20	331264	0.14	0.60	106	3.00	-10
< @ 81.15 Vein 40.00° 0.50cm > Iron carbonate vein.										94.24	95.74	1.50	331265	0.10	0.80	121	3.00	-10
< @ 81.90 Vein 20.00° 2.00cm > Strongly pitted carbonate vein at base of 30cm of breccia textured foliated interval.										95.74	97.28	1.54	331266	0.34	1.20	188	12.00	-10
« K-feldspar 1.00*» Weak pervasive blotchy buff alteration, possible k-feld alteration.										97.28	99.28	2.00	331267	0.17	1.30	175	5.00	-10
« Pyrite 3.00%» Very fine-grained anhedral and euhedral grain disseminated pyrite.			90							99.28	101.28	2.00	331268	1.40	3.50	187	17.00	-10
< @ 89.21 Vein 30.00° 1.00cm > Iron carbonate vein.										101.28	102.65	1.37	331269	0.09	0.50	149	4.00	-10
« 89.30- 90.63 Chlorite 1.00*» Chlorite fracture fill, very fine-grained grain and thinly coating fracture with fine-grained pyrite.										101.28	102.65	1.37	331270					
< @ 94.55 Vein 20.00° 0.20cm > Small carbonate vein on edge of carbonate quartz breccia										102.65	104.65	2.00	331271	0.05	0.40	158	18.00	-10
< @ 94.58 Breccia 30.00° 15.00cm > Carbonate quartz brecciated vein with small subrounded wallrock fragments.			95							104.65	106.40	1.75	331272	0.06	0.50	168	4.00	-10
< @ 99.85 Vein 30.00° 3.00cm > medium-grained grain carbonate quartz vein.										106.40	108.40	2.00	331273	0.09	0.60	143	6.00	-10
« 101.26- 103.30 Calcite 2.00-3.00*» In addition to pervasive carbonate alteration, increased vein density to 10/m oriented between 25 and 75.										108.40	110.40	2.00	331274	0.10	1.40	160	15.00	-10
< @ 104.65 Vein 25.00-45.00° 2.00cm > Carbonate vein folding across core.										110.40	112.40	2.00	331275	0.19	1.00	178	11.00	-10
« 105.70- 106.40 K-feldspar 1.00*» Feldspar phenocrysts altered to pinkish orange.			100							112.40	114.40	2.00	331276	1.37	2.80	160	84.00	-10
< @ 108.62 Vein 50.00° 1.50cm > Carbonate quartz vein.										114.40	116.40	2.00	331277	0.88	1.90	233	52.00	-10
< @ 113.74 Vein 5.00° 68.00cm > Running along the length of core for interval, 4cm thick vein.										116.40	118.56	2.16	331278	0.10	0.80	110	7.00	-10
< @ 123.28 Shear Plane/Zone 60.00° 30.00 > Weak to moderate shear, chloritised with moderate carbonate alteratin and flow textured. Trace fine-grained grain pyrite.										118.56	120.56	2.00	331279	0.07	0.60	155	9.00	-10
< @ 125.00 Vein 60.00° 15.00cm > 2 cm veins as set of three spaced over the 15cm. Pitted carbonate veins with weak chlorite alteration. Partially rubbled core after interval,			105							118.56	120.56	2.00	331280					
										120.56	122.68	2.12	331281	0.06	0.60	169	12.00	-10
										122.68	124.64	1.96	331282	0.11	0.60	142	11.00	-10
										124.64	126.64	2.00	331283	0.07	0.40	87	7.00	-10
			110							126.64	128.68	2.04	331284	0.14	0.90	137	15.00	-10
										128.68	129.42	0.74	331285	0.16	0.90	51	6.00	-10

[illegible]

Drill Log Legend



Andesite



Casing



Dacite



End of Hole



Monzonite



DRILL LOG

Project: Voigtberg	Collar Elevation (m): 1774.0
Hole VGT07-11	Azimuth (°): 360
Location: 6332030 m North 403409 m East	Dip (°): -50.0
Logged by: R.,Kutluoglu	Length (m): 46.67
Drilled by: Apex Driling	Horizontal Projection:
Assayed by: ALS Chemex	Vertical Projection:
Core Size: NQ	
Date Started: 2007/09/01	
Date Completed: 2007/09/01	
Dip Tests By: compass	
Objective This hole is the second hole testing the North Zone anomaly, drilling between the Gold Zone holes VGT07-09.The rods bound at a depth of 46.7m and the hole was abandoned.	

Summary Log:

From: 0m To: 7.3m Casing
 From: 7.3m To: 46.67m Andesite
 46.67m EOH



DRILL LOG

Project: Voigtberg

Hole ID: VGT07-11

Downhole surveys:

Depth	Dip	Azimuth
0.00	-50.50	360.00

[illegible]

Drill Log Legend



Andesite



Casing



End of Hole

Appendix E: Drill Geotechnical Data

GEOTECHNICAL CORE LOG Voigtberg					
Date:	23-Aug-07		Hole number:	VGT07-08	
Logged	RK		Core size:	NQ	
			Total depth:	200.64	
Depth (m)			Recovery	RQD	magnetic Susc.
From	To	Length	cm	cm	
3.64	5.42	1.78	151	31	0
5.42	7	1.58	191	113	0.09
7	9.12	2.12	168	99	0.69
9.12	12.16	3.04	197	38	0.09
12.16	15.2	3.04	304	110	0.13
15.2	18.24	3.04	297	121	0.25
18.24	21.28	3.04	309	112	0.56
21.28	24.32	3.04	317	125	0.04
24.32	27.36	3.04	296	223	0.27
27.36	30.4	3.04	300	266	0.4
30.4	33.44	3.04	220	30	0.32
33.44	36.48	3.04	5	0	0.58
36.48	39.62	3.14	66	10	0.42
39.62	42.56	2.94	263	93	0.6
42.56	45.6	3.04	350	193	0.29
45.6	48.64	3.04	212	160	0.12
48.64	51.68	3.04	305	255	0.17
51.68	54.72	3.04	302	153	0.37
54.72	57.76	3.04	310	104	0.37
57.76	60.8	3.04	305	196	0.12
60.8	63.84	3.04	312	155	0.20
63.84	66.88	3.04	314	146	0.39
66.88	69.92	3.04	313	117	0.22
69.92	72.96	3.04	304	86	0.05
72.96	76	3.04	306	220	0.07
76	79.04	3.04	300	170	0.41
79.04	82.08	3.04	306	253	0.30
82.08	85.12	3.04	302	254	0.25
85.12	88.16	3.04	292	130	0.01
88.16	91.2	3.04	308	237	0.06
91.2	94.24	3.04	305	179	0.08
94.24	97.28	3.04	305	271	0.30
97.28	100.32	3.04	315	200	0.24
100.32	103.36	3.04	310	272	0.07
103.36	106.4	3.04	302	252	0.01
106.4	109.44	3.04	314	240	0.12
109.44	112.48	3.04	304	228	0.30
112.48	115.52	3.04	309	133	-0.10
115.52	118.56	3.04	307	153	0.09
118.56	121.6	3.04	312	167	0.08
121.6	124.64	3.04	300	260	0.07

Depth (m)			Recovery	RQD	magnetic Susc.	
From	To	Length	cm	cm		
124.64	127.68	3.04	303	227	0.20	
127.68	130.72	3.04	300	255	0.04	
130.72	133.76	3.04	300	60	0.57	
133.76	136.8	3.04	317	178	0.08	
136.8	139.84	3.04	280	197	0.01	
139.84	142.88	3.04	309	229	0.50	
142.88	145.92	3.04	269	126	0.00	
145.92	148.96	3.04	366	304	0.80	
148.96	152	3.04	297	199	0.06	
152	155.04	3.04	222	119	0.25	
155.04	158.08	3.04	306	202	-0.05	
158.08	161.12	3.04	303	280	0.09	
161.12	164.16	3.04	302	211	0.10	
164.16	167.2	3.04	299	287	0.64	
167.2	170.75	3.55	344	302	0.22	
170.75	173.28	2.53	309	258	0.62	
173.28	176.72	3.44	317	247	0.21	
176.72	179.36	2.64	246	127	0.35	
179.36	182.4	3.04	295	270	0.31	
182.4	185.44	3.04	280	220	0.10	
185.44	188.48	3.04	307	156	0.19	
188.48	191.57	3.09	315	259	0.49	
191.57	194.56	2.99	323	181	0.16	
194.56	197.6	3.04	283	240	0.23	
197.6	200.64	3.04	385	318	0.46	

GEOTECHNICAL CORE LOG Voigtberg							
Date:	23-Aug		Hole number:	VGT07-09			
Logged by	RK		Core size:				
			Total depth:				
Depth (m)	203.68		Recovery		RQD		magnetic Susc.
From	To	Length	cm	%	cm	%	
4.26	6.08	1.82	59	32.42	32	0.54	0.09
6.08	9.12	3.04	235	77.30	126	0.54	0.69
9.12	12.16	3.04	178	58.55	33	0.19	0.09
12.16	15.2	3.04	124	40.79	80	0.65	0.13
15.2	18.26	3.06	178	58.17	78	0.44	0.25
18.26	21.3	3.04	213	70.07	44	0.21	0.56
21.3	24.32	3.02	205	67.88	101	0.49	0.04
24.32	27.36	3.04	250	82.24	130	0.52	0.27
27.36	30.4	3.04	54	17.76	23	0.43	0.4
30.4	33.44	3.04	212	69.74	123	0.58	0.32
33.44	36.48	3.04	273	89.80	133	0.49	0.58
36.48	39.52	3.04	218	71.71	122	0.56	0.58
39.52	42.56	3.04	140	46.05	38	0.27	0.6
42.56	45.6	3.04	137	45.07	70	0.51	0.29
45.6	48.64	3.04	210	69.08	80	0.38	0.12
48.64	51.68	3.04	307	100.99	128	0.42	0.17
51.68	54.72	3.04	200	65.79	40	0.20	0.02
54.72	57.74	3.02	296	98.01	157	0.53	0.37
57.74	60.8	3.06	293	95.75	211	0.72	0.79
60.8	63.84	3.04	305	100.33	262	0.86	0.68
63.84	66.88	3.04	306	100.66	299	0.98	-0.06
66.88	69.92	3.04	292	96.05	242	0.83	0.15
69.92	72.96	3.04	30	9.87	0	0.00	-0.63
72.96	76	3.04	260	85.53	196	0.75	0.67
76	79.04	3.04	299	98.36	236	0.79	0.11
79.04	82.08	3.04	275	90.46	209	0.76	0.4
82.08	85.12	3.04	288	94.74	229	0.80	0.24
85.12	88.16	3.04	302	99.34	185	0.61	0.27
88.16	91.2	3.04	303	99.67	267	0.88	0.58
91.2	94.24	3.04	291	95.72	206	0.71	0.18
94.24	97.28	3.04	292	96.05	235	0.80	0.23
97.28	100.32	3.04	320	105.26	237	0.74	0.12
100.32	103.36	3.04	285	93.75	227	0.80	-0.11
103.36	106.4	3.04	303	99.67	220	0.73	0.29
106.4	109.44	3.04	273	89.80	232	0.85	0.28
109.44	112.48	3.04	193	63.49	47	0.24	0.15
112.48	115.52	3.04	265	87.17	170	0.64	0.47
115.52	118.56	3.04	287	94.41	82	0.29	0.17
118.56	121.6	3.04	184	60.53	66	0.36	0.49
121.6	124.64	3.04	120	39.47	120	1.00	0.83
124.64	127.68	3.04	310	101.97	262	0.85	1.12

Depth (m)	203.68		Recovery		RQD		magnetic	Susc.
From	To	Length	cm	%	cm	%		
127.68	130.72	3.04	235	77.30	147	0.63	0.5	
130.72	133.76	3.04	297	97.70	148	0.50	0.2	
133.76	136.8	3.04	266	87.50	142	0.53	-0.31	
136.8	139.84	3.04	250	82.24	183	0.73	0.11	
139.84	142.88	3.04	228	75.00	199	0.87	0.2	
142.88	145.92	3.04	360	118.42	301	0.84	0.47	
145.92	148.96	3.04	306	100.66	252	0.82	0.27	
148.96	152	3.04	302	99.34	192	0.64	-0.15	
152	155.04	3.04	302	99.34	274	0.91	0.14	
155.04	158.08	3.04	305	100.33	240	0.79	0.21	
158.08	161.12	3.04	297	97.70	297	1.00	0.58	
161.12	164.16	3.04	302	99.34	275	0.91	0.2	
164.16	167.2	3.04	315	103.62	214	0.68	0.41	
167.2	170.24	3.04	293	96.38	264	0.90	0.18	
170.24	173.28	3.04	300	98.68	273	0.91	0.2	
173.28	176.32	3.04	283	93.09	270	0.95	0.39	
176.32	179.36	3.04	295	97.04	290	0.98	0.24	
179.36	182.4	6.08	308	50.66	250	0.81	0.44	
185.44	185.44	3.04	278	91.45	247	0.89	0.25	
188.48	188.48	3.04	302	99.34	254	0.84	0.7	
191.52	191.52	3.04	278	91.45	185	0.67	0.11	
194.56	194.56	3.04	246	80.92	120	0.49	0.32	
197.6	197.6	3.04	256	84.21	158	0.62	0.18	
200.64	200.64	3.04	410	134.87	208	0.51	0.16	
200.64	203.68	3.04	305	100.33	182	0.60	-0.19	

GEOTECHNICAL CORE LOG VOIGTBERG								
Date:	23-Aug-07		Hole number:	VGT07-10				
Logged	RK		Core size:	NQ				
			Total depth:	136.80				
Depth (m)			Recovery		RQD		Magnetic	Susc.
From	To	Length	cm	%	cm	%		
3.04	6.08	3.04	265	87.2	52	19.62	0.98	
6.08	9.12	3.04	174	57.2	0	0.00	0.18	
9.12	12.16	3.04	98	32.2	0	0.00	1.52	
12.16	15.20	3.04	68	22.4	16	23.53	0.28	
15.20	18.24	3.04	32	10.5	0	0.00	0.14	
18.24	21.30	3.06	93	30.4	15	16.13	0.13	
21.30	24.32	3.02	298	98.7	213	71.48	0.27	
24.32	27.36	3.04	310	102.0	77	24.84	0.32	
27.36	30.40	3.04	320	105.3	20	6.25	0.25	
30.40	33.44	3.04	298	98.0	77	25.84	0.17	
33.44	36.48	3.04	310	102.0	84	27.10	-0.06	
36.48	39.52	3.04	284	93.4	91	32.04	0.27	
39.52	42.56	3.04	272	89.5	40	14.71	0.33	
42.56	45.60	3.04	350	115.1	266	76.00	0.56	
45.60	48.64	3.04	140	46.1	40	28.57	0.12	
48.64	51.68	3.04	37	12.2	0	0.00	N/A	
51.68	54.72	3.04	280	92.1	20	7.14	0.18	
54.72	57.76	3.04	270	88.8	136	50.37	0.26	
57.76	60.80	3.04	310	102.0	280	90.32	-0.37	
60.80	63.84	3.04	285	93.7	239	83.86	-0.11	
63.84	66.88	3.04	308	101.3	240	77.92	0.19	
66.88	69.92	3.04	274	90.1	144	52.55	0.35	
69.92	72.96	3.04	297	97.7	186	62.63	0.17	
72.96	76.00	3.04	263	86.5	158	60.08	0.29	
76.00	79.04	3.04	282	92.8	237	84.04	0.35	
79.04	82.08	3.04	307	101.0	225	73.29	0.45	
82.08	85.12	3.04	312	102.6	218	69.87	0.45	
85.12	88.16	3.04	305	100.3	256	83.93	-0.02	
88.16	91.20	3.04	312	102.6	274	87.82	0.46	
91.20	94.24	3.04	0	0.0	0	0.00	N/A	
94.24	97.28	3.04	278	91.4	258	92.81	0.89	
97.28	100.32	3.04	342	112.5	310	90.64	0.41	
100.32	103.36	3.04	295	97.0	259	87.80	0.26	
103.36	106.40	3.04	314	103.3	252	80.25	0.35	
106.40	109.44	3.04	303	99.7	256	84.49	0.4	
109.44	112.48	3.04	287	94.4	228	79.44	0.5	
112.48	115.52	3.04	312	102.6	125	40.06	0.11	
115.52	118.56	3.04	310	102.0	227	73.23	0.33	
118.56	121.60	3.04	290	95.4	233	80.34	0.37	
121.60	124.64	3.04	280	92.1	110	39.29	0.47	
124.64	127.68	3.04	276	90.8	150	54.35	0.19	

Depth (m)			Recovery		RQD		Magnetic Susc.	
From	To	Length	cm	%	cm	%		
127.68	130.72	3.04	296	97.4	204	68.92	0.04	
130.72	133.76	3.04	292	96.1	105	35.96	0.26	
133.76	136.80	3.04	330	108.6	243	73.64	1.98	

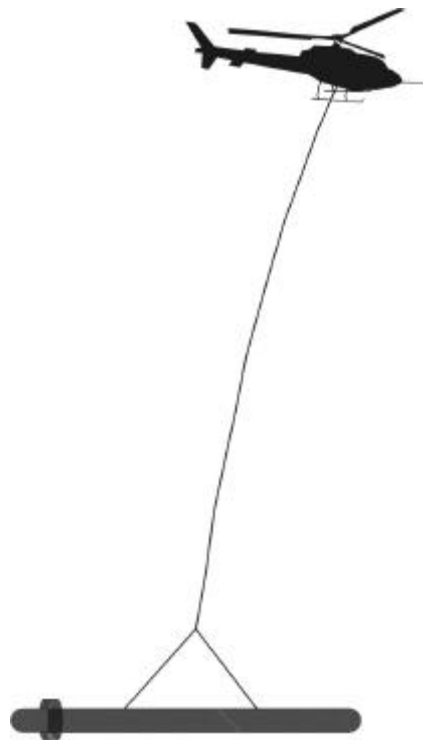
GEOTECHNICAL CORE LOG VOIGTBERG								
Date:	23-Aug-07		Hole number:	VGT07-11				
Logged	RK		Core size:	NQ				
			Total depth:	46.67				
Depth (m)			Recovery		RQD		Magnetic	Susc.
From	To	Length	cm		cm			
7.30	9.12	1.82	165	90.66	90	54.55	-0.23	
9.12	12.16	3.04	114	37.50	107	93.86	0.24	
12.16	15.20	3.04	226	74.34	170	75.22	0.44	
15.20	18.24	3.04	75	24.67	0	0.00	0.24	
18.24	21.28	3.04	115	37.83	16	13.91	0.35	
21.28	24.32	3.04	15	4.93	0	0.00	-	
24.32	27.36	3.04	70	23.03	42	60.00	0.23	
27.36	30.40	3.04	74	24.34	42	56.76	0.26	
30.40	33.44	3.04	15	4.93	0	0.00	-	
33.44	36.48	3.04	0	0.00	0	0.00	-	
36.48	39.52	3.04	0	0.00	0	0.00	-	
39.52	42.56	3.04	15	4.93	0	0.00	-	
42.56	45.60	3.04	50	16.45	11	22.00	-0.34	
45.60	46.67	1.07	95	88.79	37	38.95	0.3	

Appendix F: Airborne Geophysical Survey
(Fugro)

Report # 07037

**DIGHEM V SURVEY
FOR
EQUITY ENGINEERING LTD./ BC GOLD CORP
VOIGTBERG PROJECT, GALORE CREEK, B.C.**

NTS: 104G/2



Fugro Airborne Surveys Corp.
Mississauga, Ontario

October 17, 2007

SUMMARY

This report describes the logistics, data acquisition, processing and presentation of results of a DIGHEM airborne geophysical survey carried out for Equity Engineering Ltd., on behalf of BC Gold Corp., over the Voigtberg Property in the Galore Creek area, B.C. Total coverage of the survey block amounted to 404 km. The survey was flown from August 11 to August 13, 2007.

The purpose of the survey was to detect zones of conductive sulphide mineralization, to outline any porphyry-like intrusives and to provide information that could be used to map the geology and structure of the survey area. This was accomplished by using a DIGHEM V multi-coil, multi-frequency electromagnetic system, supplemented by a high sensitivity cesium magnetometer. The information from these sensors was processed to produce maps that display the magnetic and conductive properties of the survey area. A GPS electronic navigation system ensured accurate positioning of the geophysical data with respect to the base maps.

The survey data were processed and compiled in the Fugro Airborne Surveys Toronto office. Map products and digital data were provided in accordance with the scales and formats specified in the Survey Agreement.

CONTENTS

1.	INTRODUCTION	1.1
2.	SURVEY OPERATIONS.....	2.1
3.	SURVEY EQUIPMENT	3.1
	Electromagnetic System	3.1
	In-Flight EM System Calibration	3.2
	Airborne Magnetometer	3.4
	Magnetic Base Station.....	3.4
	Navigation (Global Positioning System)	3.5
	Radar Altimeter	3.7
	Barometric Pressure and Temperature Sensors	3.9
	Digital Data Acquisition System.....	3.9
	Video Flight Path Recording System	3.10
4.	QUALITY CONTROL AND IN-FIELD PROCESSING.....	4.1
5.	DATA PROCESSING	5.1
	Flight Path Recovery	5.1
	Electromagnetic Data	5.2
	Apparent Resistivity	5.2
	Dielectric Permittivity and Magnetic Permeability Corrections.....	5.5
	(optional).....	5.5
	Resistivity-depth Sections (optional)	5.7
	Total Magnetic Field	5.8
	Calculated Vertical Magnetic Gradient	5.10
	EM Magnetite (optional)	5.10
	Residual Magnetic Intensity (optional).....	5.10
	Magnetic Derivatives (optional)	5.11
	Digital Elevation (optional).....	5.12
	Contour, Colour and Shadow Map Displays.....	5.13
	Multi-channel Stacked Profiles	5.13
6.	PRODUCTS	6.1
	Base Maps.....	6.1
	Final Products.....	6.2

7.	SURVEY RESULTS	7.1
	General Discussion	7.1
	Magnetics	7.4
	Apparent Resistivity	7.5
	Electromagnetic Anomalies.....	7.6
	Potential Targets in the Survey Area.....	7.9
8.	CONCLUSIONS AND RECOMMENDATIONS.....	8.1

APPENDICES

- A. List of Personnel
- B. Data Processing Flowcharts
- C. Background Information
- D. Data Archive Description
- E. EM Anomaly List
- F. Glossary

1. INTRODUCTION

A DIGHEM V airborne geophysical survey was flown for Equity Engineering Ltd./ BC Gold Corp, over the Voigtberg Property in the Galore Creek area, B.C., from August 11 to August 13, 2007. The survey area can be located on NTS map sheet 104G/2 (See Figure 2).

Survey coverage consisted of approximately 404 line-km, including 37 line-km of control lines. Flight lines were flown in an azimuthal direction of 170°/350° with a line separation of 100 metres. Control lines were flown orthogonal to the traverse lines with a line separation of 1000 metres.

The survey employed the DIGHEM V electromagnetic system. Ancillary equipment consisted of a magnetometer, radar and barometric altimeters, a video camera, a digital recorder, and an electronic navigation system. The instrumentation was installed in an AS-350B3 turbine helicopter (Registration C-FECL) that was provided by Questral Helicopters Ltd. The helicopter flew at an average airspeed of 80 km/h with an EM sensor height of approximately 30 metres.



Figure 1: Fugro Airborne Surveys DIGHEM V EM bird with AS350-B3

2. SURVEY OPERATIONS

The base of operations for the survey was established at Bell II Lodge

Table 2-1 lists the corner coordinates of the survey area in NAD83, UTM Zone 9, central meridian 129° W.

Table 2-1

Nad83 Utm Zone 9N

Block	Corners	X-UTM (E)	Y-UTM (N)
07037-1	1	401499	6334801
Voigtberg	2	404000	6334800
Project	3	404000	6336611
	4	407374	6336541
	5	408134	6332094
	6	408033	6331799
	7	405821	6331799
	8	405780	6328589
	9	402310	6328695
	10	401998	6330465

The survey specifications were as follows:

Parameter	Specifications
Traverse line direction	55° / 235°
Traverse line spacing	100 m
Tie line direction	145° / 325°
Tie line spacing	1000 m
Sample interval	10 Hz, 2.2 m @ 80 km/h
Aircraft mean terrain clearance	58 m
EM sensor mean terrain clearance	30 m
Mag sensor mean terrain clearance	30 m
Average speed	80 km/h
Navigation (guidance)	±5 m, Real-time GPS
Post-survey flight path	±2 m, Differential GPS

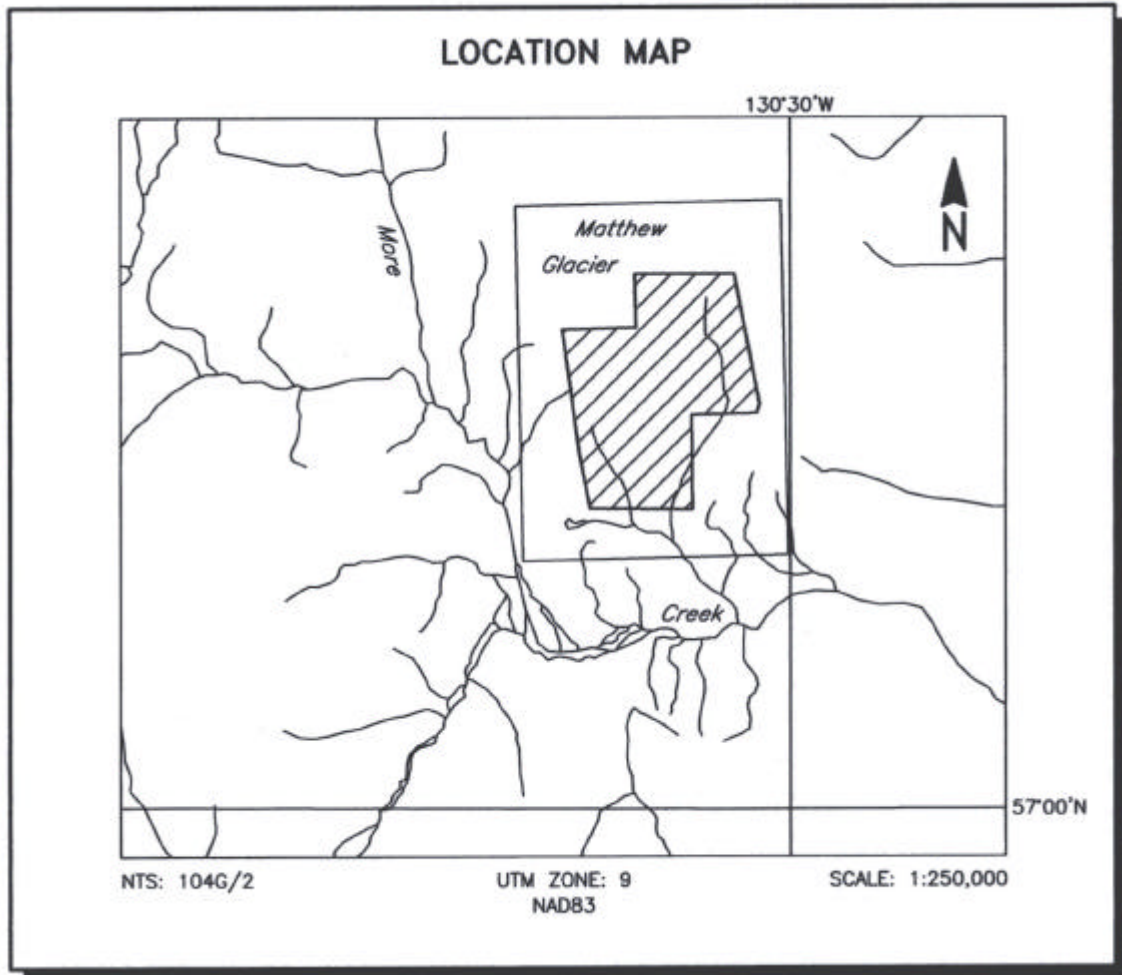


Figure 2
Location Map and Sheet Layout
Job # 07037

3. SURVEY EQUIPMENT

This section provides a brief description of the geophysical instruments used to acquire the survey data and the calibration procedures employed. The geophysical equipment was installed in an AS-350B3 helicopter. This aircraft provides a safe and efficient platform for surveys of this type.

Electromagnetic System

Model: DIGHEM V – BKS64D

Type: Towed bird, symmetric dipole configuration operated at a nominal survey altitude of 30 metres. Coil separation is 8 metres for 900 Hz, 1000 Hz, 5500 Hz and 7200 Hz, and 6.3 metres for the 56,000 Hz coil-pair.

Coil orientations, frequencies and dipole moments	<u>Atm²</u>	<u>orientation</u>	<u>nominal</u>	<u>actual</u>
	211	coaxial /	1000 Hz	1112 Hz
	211	coplanar /	900 Hz	870 Hz
	67	coaxial /	5500 Hz	5687 Hz
	56	coplanar /	7200 Hz	7302 Hz
	15	coplanar /	56,000 Hz	55040 Hz

Channels recorded: 5 in-phase channels
5 quadrature channels
2 monitor channels

Sensitivity: 0.06 ppm at 1000 Hz Cx
0.12 ppm at 900 Hz Cp
0.12 ppm at 5,500 Hz Cx
0.24 ppm at 7,200 Hz Cp
0.60 ppm at 56,000 Hz Cp

Sample rate: 10 per second, equivalent to 1 sample every 2.2 m, at a survey speed of 80 km/h.

The electromagnetic system utilizes a multi-coil coaxial/coplanar technique to energize conductors in different directions. The coaxial coils are vertical with their axes in the flight direction. The coplanar coils are horizontal. The secondary fields are sensed simultaneously by means of receiver coils that are maximum coupled to their respective transmitter coils. The system yields an in-phase and a quadrature channel from each transmitter-receiver coil-pair.

In-Flight EM System Calibration

Calibration of the system during the survey uses the Fugro AutoCal automatic, internal calibration process. At the beginning and end of each flight, and at intervals during the flight, the system is flown up to high altitude to remove it from any “ground effect” (response from the earth). Any remaining signal from the receiver coils (base level) is measured as the zero level, and is removed from the data collected until the time of the next calibration. Following the zero level setting, internal calibration coils, for which the response phase and amplitude have been determined at the factory, are automatically triggered – one for each frequency. The on-time of the coils is sufficient to determine an accurate response through any ambient noise. The receiver response to each calibration coil “event” is compared to the expected response (from the factory calibration) for both phase angle and amplitude, and any phase and gain corrections are automatically applied to bring the data to the correct value.

In addition, the outputs of the transmitter coils are continuously monitored during the survey, and the gains are adjusted to correct for any change in transmitter output.

Because the internal calibration coils are calibrated at the factory (on a resistive halfspace) ground calibrations using external calibration coils on-site are not necessary for system calibration. A check calibration may be carried out on-site to ensure all systems are working correctly. All system calibrations will be carried out in the air, at sufficient altitude that there will be no measurable response from the ground.

The internal calibration coils are rigidly positioned and mounted in the system relative to the transmitter and receiver coils. In addition, when the internal calibration coils are calibrated at the factory, a rigid jig is employed to ensure accurate response from the external coils.

Using real time Fast Fourier Transforms and the calibration procedures outlined above, the data are processed in real time, from measured total field at a high sampling rate, to in-phase and quadrature values at 10 samples per second.

Airborne Magnetometer

Model:	CS2 sensor	Fugro D1344 processor with Scintrex
Type:	Optically pumped cesium vapour	
Sensitivity:	0.01 nT	
Sample rate:	10 per second	

The magnetometer sensor is housed in the EM bird, 28 m below the helicopter.

Magnetic Base Station

Primary

Model:	Fugro CF1 base station with timing provided by integrated GPS	
Sensor type:	Geometrics GR822A	
Counter specifications:	Accuracy:	±0.1 nT
	Resolution:	0.01 nT
	Sample rate	1 Hz
GPS specifications:	Model:	Marconi Allstar
	Type:	Code and carrier tracking of L1 band, 12-channel, C/A code at 1575.42 MHz
	Sensitivity:	-90 dBm, 1.0 second update
	Accuracy:	Manufacturer's stated accuracy for differential corrected GPS is 2 metres
Environmental Monitor specifications:	Temperature:	
	• Accuracy:	±1.5°C max

- Resolution: 0.0305°C
- Sample rate: 1 Hz
- Range: -40°C to +75°C

Barometric pressure:

- Model: Motorola MPXA4115A
- Accuracy: $\pm 3.0^{\circ}$ kPa max (-20°C to 105°C temp. ranges)
- Resolution: 0.013 kPa
- Sample rate: 1 Hz
- Range: 55 kPa to 108 kPa

A digital recorder is operated in conjunction with the base station magnetometer to record the diurnal variations of the earth's magnetic field. The clock of the base station is synchronized with that of the airborne system, using GPS time, to permit subsequent removal of diurnal drift. The Fugro CF1 was the primary magnetic base station. The CF1 was set up at latitude 57° 14' 37.67069" N, longitude 130° 54' 59.80182" W at an elevation of 771.18 metres above the WGS84 ellipsoid.

Navigation (Global Positioning System)

Airborne Receiver for Real-time Navigation & Guidance

Model:	Novatel OEM 4 with PNAV 2100 interface
Type:	Code and carrier tracking of L1 band, 12-channel, dual frequency C/A code at 1575.2 MHz, and L2 P-code 1227 MHz. S code at 0.5625 MHz. Real-time differential. WAAS enabled.
Sensitivity:	-132 dBm, 0.5 second update
Accuracy:	Manufacturer's stated accuracy is better than 2 metres

real-time

Antenna: Aero AT1675; Mounted on tail of aircraft

Primary Base Station for Post-Survey Differential Correction

Model: Novatel OEM 4

Type: Code and carrier tracking of L1 band, 12-channel, dual frequency C/A code at 1575.2 MHz, and L2 P-code 1227 MHz

Sample rate: 0.5 second update

Accuracy: Manufacturer's stated accuracy for differential corrected GPS is better than 1 metre

Secondary GPS Base Station

Model: Marconi Allstar OEM, CMT-1200

Type: Code and carrier tracking of L1 band, 12-channel, C/A code at 1575.42 MHz

Sensitivity: -90 dBm, 1.0 second update

Accuracy: Manufacturer's stated accuracy for differential corrected GPS is 2 metres.

The Novatel OEM4 is a line of sight, satellite navigation system that utilizes time-coded signals from at least four of forty-eight available satellites. Both Russian GLONASS and American NAVSTAR satellite constellations are used to calculate the position and to provide real time guidance to the helicopter. A similar Novatel OEM 4 system was used as the primary base station receiver. The mobile and base station raw XYZ data were recorded, thereby permitting post-survey differential corrections for theoretical

accuracies of better than 2 metres. A Marconi Allstar GPS unit, part of the CF-1, was used as a secondary (back-up) base station.

Each base station receiver is able to calculate its own latitude and longitude. For this survey, the primary GPS station was located at Bell II Lodge, at latitude 56° 44' 42.78" N, longitude 129° 47' 45.54" W at an elevation of 554.63 metres above the ellipsoid. The secondary GPS unit was located at the coordinates previously given for the magnetic (CF1) base station. The GPS systems record data relative to the WGS84 ellipsoid, which is the basis of the revised North American Datum (NAD83). Conversion software is used to transform the WGS84 coordinates to the NAD83 UTM system displayed on the maps.

Radar Altimeter

Manufacturer:	Honeywell
Model:	RT220
Type:	Short pulse modulation, 4.3 GHz
Sensitivity:	0.3 m
Sample rate:	2 per second

- 3.8 -

The radar altimeter measures the vertical distance between the helicopter and the ground. This information is used in the processing algorithm that determines conductor depth.

Barometric Pressure and Temperature Sensors

Model:	DIGHEM D 1300		
Type:	Motorola MPX4115AP analog pressure sensor AD592AN high-impedance remote temperature sensors		
Sensitivity:	Pressure:	150 mV/kPa	
	Temperature:	100 mV/°C or 10 mV/°C (selectable)	
Sample rate:	10 per second		

The D1300 circuit is used in conjunction with one barometric sensor and up to three temperature sensors. Two sensors (barometric and temperature) are installed in the EM console in the aircraft, to monitor pressure and internal operating temperatures. A third sensor is housed in the bird, to record the external ambient operating temperature.

Digital Data Acquisition System

Manufacturer:	Fugro
Model:	Helidas
Recorder:	SanDisk Ultra II Compact Flash

The stored data are downloaded to the field workstation PC at the survey base, for verification, backup and preparation of in-field products.

Video Flight Path Recording System

Type: Sony DXC-101 Colour Video Camera
Recorder: Axis 241S Video Server and Tablet Computer
Format: *.BIN / *.BDX (Digital)

Fiducial numbers are recorded continuously and are displayed on the margin of each image. This procedure ensures accurate correlation of data with respect to visible features on the ground.

4. QUALITY CONTROL AND IN-FIELD PROCESSING

Digital data for each flight were transferred to the field workstation, in order to verify data quality and completeness. A database was created and updated using Geosoft Oasis Montaj and proprietary Fugro Atlas software. This allowed the field personnel to calculate, display and verify both the positional (flight path) and geophysical data on a screen or printer. Records were examined as a preliminary assessment of the data acquired for each flight.

In-field processing of Fugro survey data consists of differential corrections to the airborne GPS data, verification of EM calibrations, drift correction of the raw airborne EM data, spike rejection and filtering of all geophysical and ancillary data, verification of flight videos, calculation of preliminary resistivity data, diurnal correction, and preliminary leveling of magnetic data.

All data, including base station records, were checked on a daily basis, to ensure compliance with the survey contract specifications. Reflights were required if any of the following specifications were not met.

Navigation - Positional (x,y) accuracy of better than 10 m, with a CEP (circular error of probability) of 95%.

- 4.2 -

- Flight Path - No lines to exceed $\pm 25\%$ departure from nominal line spacing over a continuous distance of more than 1 km, except for reasons of safety.
- Clearance - Mean terrain sensor clearance of 30 m, except where precluded by safety considerations, e.g., restricted or populated areas, severe topography, obstructions, tree canopy, aerodynamic limitations, etc.
- Airborne Mag - Aerodynamic magnetometer 4th difference not to exceed 1.6 nT over 1 km excluding areas where this specification is exceeded due to natural anomalies.
- Base Mag - Diurnal variations not to exceed 10 nT over a straight line time chord of 1 minute.
- EM - Spheric pulses may occur having strong peaks but narrow widths. The EM data area considered acceptable when their occurrence is less than 10 spheric events exceeding the stated noise specification for a given frequency per 100 samples continuously over a distance of 2,000 metres. Peak to peak noise tolerances in the EM data are not to exceed the following tolerances over a continuous horizontal distance of 2,000 metres.

Frequency	Coil Orientation	Peak to Peak Noise Envelope (ppm)
1000 Hz	vertical coaxial	5.0
900 Hz	horizontal coplanar	10.0
5500 Hz	vertical coaxial	10.0
7200 Hz	horizontal coplanar	20.0
56,000 Hz	horizontal coplanar	40.0

5. DATA PROCESSING

Flight Path Recovery

The final flight path is produced by applying the following procedures:

- Data quality checks
- Differential post-processing of data
- Projecting the raw latitudes/longitudes into UTM coordinates
- Flight path and speed checks

Initially the raw data are checked for gaps and data quality. The raw range data from at least four satellites are simultaneously recorded by both the base and mobile GPS units. The geographic positions of both units, relative to the model ellipsoid, are calculated from this information. Differential corrections, which are obtained from the base station, are applied to the mobile unit data to provide a post-flight track of the aircraft, accurate to within 2 m. The flight path and speed are checked to determine if there are any spikes or gaps in the data.

The corrected WGS84 latitude/longitude coordinates are transformed to the UTM coordinate system used on the final maps. Images or plots are then created to provide a visual check of the flight path.

Electromagnetic Data

EM data are processed at the recorded sample rate of 10 samples/second. Spheric rejection median and Hanning filters are then applied to reduce noise to acceptable levels. EM test profiles are then created to allow the interpreter to select the most appropriate EM anomaly picking controls for a given survey area. The EM picking parameters depend on several factors but are primarily based on the dynamic range of the resistivities within the survey area, and the types and expected geophysical responses of the targets being sought.

Anomalous electromagnetic responses are selected and analysed by computer to provide a preliminary electromagnetic anomaly map. The automatic selection algorithm is intentionally oversensitive to assure that no meaningful responses are missed. Using the preliminary map in conjunction with the multi-parameter stacked profiles, the interpreter then classifies the anomalies according to their source and eliminates those that are not substantiated by the data. The final interpreted EM anomaly map includes bedrock, surficial and cultural conductors. A map containing only bedrock conductors can be generated, if desired.

Apparent Resistivity

The apparent resistivities in ohm-m are generated from the in-phase and quadrature EM components for all of the coplanar frequencies, using a pseudo-layer half-space model. The inputs to the resistivity algorithm are the in-phase and quadrature amplitudes of the secondary field. The algorithm calculates the apparent resistivity in ohm-m, and the apparent height of the bird above the conductive source. Any difference between the apparent height and the true height, as measured by the radar altimeter, is called the pseudo-layer and reflects the difference between the real geology and a homogeneous halfspace. This difference is often attributed to the presence of a highly resistive upper layer. Any errors in the altimeter reading, caused by heavy tree cover, are included in the pseudo-layer and do not affect the resistivity calculation. The apparent depth estimates, however, will reflect the altimeter errors. Apparent resistivities calculated in this manner may differ from those calculated using other models.

In areas where the effects of magnetic permeability or dielectric permittivity have suppressed the in-phase responses, the calculated resistivities will be erroneously high. Various algorithms and inversion techniques can be used to partially correct for the effects of permeability and permittivity.

Apparent resistivity maps portray all of the information for a given frequency over the entire survey area. This full coverage contrasts with the electromagnetic anomaly map, which provides information only over interpreted conductors. The large dynamic range afforded by the multiple frequencies makes the apparent resistivity parameter an excellent mapping tool. Broad conductors, which more closely approximate a half-space model, will be

maximum coupled to the horizontal (coplanar) coil-pair and should be more evident on the resistivity parameter. Resistivity maps, therefore, may be more valuable than the electromagnetic anomaly maps, in areas where broad or flat-lying conductors are considered to be of importance.

The preliminary apparent resistivity maps and images are carefully inspected to identify any lines or line segments that might require base level adjustments. Subtle changes between in-flight calibrations of the system can result in line-to-line differences that are more recognizable in resistive (low signal amplitude) areas. If required, manual level adjustments are carried out to eliminate or minimize resistivity differences that can be attributed, in part, to changes in operating temperatures. These leveling adjustments are usually very subtle, and do not result in the degradation of discrete anomalies.

After the manual leveling process is complete, revised resistivity grids are created. The resulting grids can be subjected to a microleveling technique in order to smooth the data for contouring. The coplanar resistivity parameter has a broad 'footprint' that requires very little filtering.

The calculated resistivities for the 900 Hz, 7200 Hz and 56000 Hz coplanar frequencies are included in the XYZ and grid archives. Values are in ohm-metres on all final products.

Apparent resistivity maps, which display the conductive properties of the survey areas, were produced from the 7200Hz and 56,000 Hz coplanar data. The maximum resistivity

values, which are calculated for each frequency, are 8000 and 22,050 ohm·m respectively.

These cutoffs eliminate the erratic higher resistivities that would result from unstable ratios of very small EM amplitudes.

Dielectric Permittivity and Magnetic Permeability Corrections¹

(optional)

In resistive areas having magnetic rocks, the magnetic and dielectric effects will both generally be present in high-frequency EM data, whereas only the magnetic effect will exist in low-frequency data.

The magnetic permeability is first obtained from the EM data at the lowest frequency, because the ratio of the magnetic response to conductive response is maximized and because displacement currents are negligible. The homogeneous half-space model is used. The computed magnetic permeability is then used along with the in-phase and quadrature response at the highest frequency to obtain the relative dielectric permittivity, again using the homogeneous half-space model. The highest frequency is used because the ratio of dielectric response to conductive response is maximized. The resistivity can then be determined from the measured in-phase and quadrature components of each frequency, given the relative magnetic permeability and relative dielectric permittivity.

¹ Huang, H. and Fraser, D.C., 2001 Mapping of the Resistivity, Susceptibility, and Permittivity of the Earth Using a Helicopter-borne Electromagnetic System: Geophysics 106 pg 148-157.

Resistivity-depth Sections (optional)

The apparent resistivities for all frequencies can be displayed simultaneously as coloured resistivity-depth sections. Usually, only the coplanar data are displayed as the close frequency separation between the coplanar and adjacent coaxial data tends to distort the section. The sections can be plotted using the topographic elevation profile as the surface. The digital terrain values, in metres a.m.s.l., can be calculated from the GPS Z-value or barometric altimeter, minus the aircraft radar altimeter.

Resistivity-depth sections can be generated in three formats:

- (1) Sengpiel resistivity sections, where the apparent resistivity for each frequency is plotted at the depth of the centroid of the in-phase current flow²; and,
- (2) Differential resistivity sections, where the differential resistivity is plotted at the differential depth³.
- (3) Occam⁴ or Multi-layer⁵ inversion.

² Sengpiel, K.P., 1988, Approximate Inversion of Airborne EM Data from Multilayered Ground: Geophysical Prospecting 36, 446-459.

³ Huang, H. and Fraser, D.C., 1993, Differential Resistivity Method for Multi-frequency Airborne EM Sounding: presented at Intern. Airb. EM Workshop, Tucson, Ariz.

⁴ Constable et al, 1987, Occam's inversion: a practical algorithm for generating smooth models from electromagnetic sounding data: Geophysics, 52, 289-300.

⁵ Huang H., and Palacky, G.J., 1991, Damped least-squares inversion of time domain airborne EM data based on singular value decomposition: Geophysical Prospecting, 39, 827-844.

Both the Sengpiel and differential methods are derived from the pseudo-layer half-space model. Both yield a coloured resistivity-depth section that attempts to portray a smoothed approximation of the true resistivity distribution with depth. Resistivity-depth sections are most useful in conductive layered situations, but may be unreliable in areas of moderate to high resistivity where signal amplitudes are weak. In areas where in-phase responses have been suppressed by the effects of magnetite, or adversely affected by cultural features, the computed resistivities shown on the sections may be unreliable.

Both the Occam and multi-layer inversions compute the layered earth resistivity model that would best match the measured EM data. The Occam inversion uses a series of thin, fixed layers (usually 20 x 5m and 10 x 10m layers) and computes resistivities to fit the EM data. The multi-layer inversion computes the resistivity and thickness for each of a defined number of layers (typically 3-5 layers) to best fit the data.

Total Magnetic Field

The final total field is produced by applying the following procedures:

- Data quality checks
- Lag correction
- Checking and applying the diurnal data
- Leveling of the total magnetic field

The quality of the magnetic data is checked by using a fourth difference editing routine to locate spikes and noise in the data. The noise levels are checked to confirm they are within the stated specifications. Narrow spikes are removed manually, guided by the fourth difference calculation. Any resulting small gaps are interpolated using an Akima spline.

A magnetic lag test is flown to calculate the positional lag that develops between the time a reading is made and the time it is recorded in the data. A large metallic body such as, a bridge, building, railway tracks, or a distinct magnetic anomaly is overflown along a single line, at survey altitude, in opposite directions. The time shift determined by this procedure is then applied to the survey data.

A Fugro CF1 cesium vapour magnetometer was operated at the survey base to record diurnal variations of the earth's magnetic field. The clock of the base station was synchronized with that of the airborne system to permit subsequent removal of diurnal drift. The diurnal field was filtered before the corrections were applied to the magnetic data.

The diurnal-corrected magnetic data were then leveled using tie and traverse line intercepts. Manual adjustments were applied to any lines that required leveling, as indicated by shadowed images of the gridded magnetic data. The manually leveled data were then subjected to a microleveling filter.

The total magnetic field data have been presented as contours on the base maps using a contour interval of 5 nT where gradients permit. The maps show the magnetic properties of the rock units underlying the survey area.

Calculated Vertical Magnetic Gradient

The diurnally-corrected total magnetic field data were subjected to a processing algorithm that enhances the response of magnetic bodies in the upper 500 m and attenuates the response of deeper bodies. The resulting vertical gradient map provides better definition and resolution of near-surface magnetic units. It also identifies weak magnetic features that may not be evident on the total field map. However, regional magnetic variations and changes in lithology may be better defined on the total magnetic field map.

EM Magnetite (optional)

The apparent percent magnetite by weight is computed wherever magnetite produces a negative in-phase EM response. This calculation is more meaningful in resistive areas.

Residual Magnetic Intensity (optional)

The residual magnetic intensity (RMI) is derived from the total magnetic field (TMF), the diurnal, and the regional magnetic field. The total magnetic intensity is measured in the aircraft, the diurnal is measured from the ground station, and the regional magnetic field is

calculated from the international geo-referenced magnetic field (IGRF). The low frequency component of the diurnal is extracted from the filtered ground station data and removed from the TMF. The average of the diurnal is then added back in to obtain the resultant total magnetic intensity. The regional magnetic field, calculated for the specific survey location and the time of the survey, is then removed from the resultant total magnetic intensity to yield the residual magnetic intensity.

Magnetic Derivatives (optional)

The total magnetic field data can be subjected to a variety of filtering techniques to yield maps or images of the following:

- enhanced magnetics
- second vertical derivative
- reduction to the pole/equator
- magnetic susceptibility with reduction to the pole
- upward/downward continuations
- analytic signal

All of these filtering techniques improve the recognition of near-surface magnetic bodies, with the exception of upward continuation. Any of these parameters can be produced on request.

Digital Elevation (optional)

The radar altimeter values are subtracted from the differentially corrected and de-spiked GPS-Z values to produce profiles of the height above the ellipsoid along the survey lines. These values are gridded to produce contour maps showing approximate elevations within the survey area. The calculated digital terrain data are then tie-line leveled and adjusted to mean sea level. Any remaining subtle line-to-line discrepancies are manually removed. After the manual corrections are applied, the digital terrain data are filtered with a microleveling algorithm.

The accuracy of the elevation calculation is directly dependent on the accuracy of the two input parameters, ALTR and GPS-Z. The ALTR value may be erroneous in areas of heavy tree cover, where the altimeter reflects the distance to the tree canopy rather than the ground. The GPS-Z value is primarily dependent on the number of available satellites.

Although post-processing of GPS data will yield X and Y accuracies in the order of 1-2 metres, the accuracy of the Z value is usually much less, sometimes in the ± 10 metre range. Further inaccuracies may be introduced during the interpolation and gridding process.

Because of the inherent inaccuracies of this method, no guarantee is made or implied that the information displayed is a true representation of the height above sea level. Although this product may be of some use as a general reference, THIS PRODUCT MUST NOT BE USED FOR NAVIGATION PURPOSES.

Contour, Colour and Shadow Map Displays

The geophysical data are interpolated onto a regular grid using a modified Akima spline technique. The resulting grid is suitable for image processing and generation of contour maps. The grid cell size is 20% of the line interval.

Colour maps are produced by interpolating the grid down to the pixel size. The parameter is then incremented with respect to specific amplitude ranges to provide colour "contour" maps.

Monochromatic shadow maps or images are generated by employing an artificial sun to cast shadows on a surface defined by the geophysical grid. There are many variations in the shadowing technique. These techniques can be applied to total field or enhanced magnetic data, magnetic derivatives, resistivity, etc. The shadowing technique is also used as a quality control method to detect subtle changes between lines.

Multi-channel Stacked Profiles

Distance-based profiles of the digitally recorded geophysical data are generated and plotted at an appropriate scale. These profiles also contain the calculated parameters that are used in the interpretation process. These are produced as worksheets prior to

interpretation, and are also presented in the final corrected form after interpretation. The profiles display electromagnetic anomalies with their respective interpretive symbols. Table 5-1 shows the parameters and scales for the multi-channel stacked profiles.

In Table 5-1, the log resistivity scale of 0.06 decade/mm means that the resistivity changes by an order of magnitude in 16.6 mm. The resistivities at 0, 33 and 67 mm up from the bottom of the digital profile are respectively 1, 100 and 10,000 ohm-m.

Table 5-1. Multi-channel Stacked Profiles

Channel Name (Freq)	Observed Parameters	Scale Units/mm
MAG5	total magnetic field (fine)	5 nT
MAG50	total magnetic field (coarse)	50 nT
ALTBIRD	EM sensor height above ground	6 m
CXI1000	vertical coaxial coil-pair in-phase (1000 Hz)	5 ppm
CXQ1000	vertical coaxial coil-pair quadrature (1000 Hz)	5 ppm
CPI900	horizontal coplanar coil-pair in-phase (900 Hz)	10 ppm
CPQ900	horizontal coplanar coil-pair quadrature (900 Hz)	10 ppm
CXI5500	vertical coaxial coil-pair in-phase (5500 Hz)	10 ppm
CXQ5500	vertical coaxial coil-pair quadrature (5500 Hz)	10 ppm
CPI7200	horizontal coplanar coil-pair in-phase (7200 Hz)	20 ppm
CPQ7200	horizontal coplanar coil-pair quadrature (7200 Hz)	20 ppm
CPI56K	horizontal coplanar coil-pair in-phase (56,000 Hz)	20 ppm
CPQ56K	horizontal coplanar coil-pair quadrature (56,000 Hz)	20 ppm
	Computed Parameters	
DIFI (mid freq.)	difference function in-phase from CXI and CPI	10 ppm
DIFQ (mid freq.)	difference function quadrature from CXQ and CPQ	10 ppm
RES900	log resistivity	.06 decade
RES7200	log resistivity	.06 decade
RES56K	log resistivity	.06 decade
DEP900	apparent depth	6 m
DEP7200	apparent depth	6 m
DEP56K	apparent depth	6 m

- 5.15 -

CDT	conductance	1 grade

6. PRODUCTS

This section lists the final maps and products that have been provided under the terms of the survey agreement. Other products can be prepared from the existing dataset, if requested. These include magnetic enhancements or derivatives, percent magnetite, resistivities corrected for magnetic permeability and/or dielectric permittivity, digital terrain, resistivity-depth sections, inversions, and overburden thickness. Most parameters can be displayed as contours, profiles, or in colour.

Base Maps

Base maps of the survey area were produced by using BC Trim digital topography provided by Equity Engineering Ltd. This process provides a relatively accurate, distortion-free base that facilitates correlation of the navigation data to the map coordinate system. The topographic files were combined with geophysical data for plotting the final maps. All maps were created using the following parameters:

Projection Description:

Datum:	NAD83
Ellipsoid:	GRS 1980
Projection:	UTM (Zone 9N)
Central Meridian:	129° W
False Northing:	0
False Easting:	500000
Scale Factor:	0.9996
WGS84 to Local Conversion:	Molodensky
Datum Shifts:	DX: 0 DY: 0 DZ: 0

The following parameters are presented on a single map sheet at a scale of 1:20,000. All maps include flight lines, topography, and the claim area outline, unless otherwise indicated. Preliminary products are not listed.

Final Products

	No. of Map Sets=2		
	Mylar	Blackline	Colour
EM Anomalies		2 x 1	
Total Magnetic Field			2 x 1
Calculated Vertical Magnetic Gradient			2 x 1
Apparent Resistivity 7200 Hz			2 x 1
Apparent Resistivity 56000 Hz			2 x 1

Additional Products

Digital Archive (see Archive Description)
Survey Report
Multi-channel Stacked Profiles
Flight Path Video (DVD)

1 CD-ROM
2 paper copies, 1 digital pdf copy
All lines
1 DVD

7. SURVEY RESULTS

General Discussion

Table 7-1 summarizes the EM responses in the survey area, with respect to conductance grade and interpretation. The apparent conductance and depth values shown in the EM Anomaly list appended to this report have been calculated from "local" in-phase and quadrature amplitudes of the Coaxial 5500 Hz frequency. The picking and interpretation procedure relies on several parameters and calculated functions. For this survey, the Coaxial 5500 Hz responses and the mid-frequency difference channels were used as two of the main picking criteria. The 7200 Hz coplanar results were also weighted to provide picks over wider or flat-dipping sources. The quadrature channels provided picks in areas where the in-phase responses might have been suppressed by magnetite.

The anomalies shown on the electromagnetic anomaly maps are based on a near-vertical, half plane model. This model best reflects "discrete" bedrock conductors. Wide bedrock conductors or flat-lying conductive units, whether from surficial or bedrock sources, may give rise to very broad anomalous responses on the EM profiles. These may not appear on the electromagnetic anomaly map if they have a regional character rather than a locally anomalous character.

TABLE 7-1 EM ANOMALY STATISTICS
VOIGTBERG PROPERTY

CONDUCTOR GRADE	CONDUCTANCE RANGE SIEMENS (MHOS)	NUMBER OF RESPONSES
7	>100	0
6	50 - 100	0
5	20 - 50	0
4	10 - 20	0
3	5 - 10	1
2	1 - 5	9
1	<1	269
*	INDETERMINATE	121
TOTAL		400

CONDUCTOR MODEL	MOST LIKELY SOURCE	NUMBER OF RESPONSES
D	DISCRETE BEDROCK CONDUCTOR	5
B	DISCRETE BEDROCK CONDUCTOR	19
S	CONDUCTIVE COVER	359
H	ROCK UNIT OR THICK COVER	0
E	EDGE OF WIDE CONDUCTOR	17
L	CULTURE	0
TOTAL		400

(SEE EM MAP LEGEND FOR EXPLANATIONS)

These broad conductors, which more closely approximate a half-space model, will be maximum coupled to the horizontal (coplanar) coil-pair and should be more evident on the resistivity parameter. Resistivity maps, therefore, may be more valuable than the electromagnetic anomaly maps, in areas where broad or flat-lying conductors are considered to be of importance. Contoured resistivity maps, based on the 7200 Hz and 56,000 Hz coplanar data are included with this report.

Excellent resolution and discrimination of conductors was accomplished by using a fast sampling rate of 0.1 sec and by employing a "common" frequency (5500/7200 Hz) on two orthogonal coil-pairs (coaxial and coplanar). The resulting difference channel parameters often permit differentiation of bedrock and surficial conductors, even though they may exhibit similar conductance values.

Anomalies that occur in steep valleys or near the ends of the survey lines (i.e., outside the survey area), should be viewed with caution. Some of the weaker anomalies could be due to aerodynamic noise, i.e., bird bending, which is created by abnormal stresses to which the bird is subjected during the climb and turn of the aircraft between lines. Such aerodynamic noise is usually manifested by an anomaly on the coaxial in-phase channel only, although severe stresses can affect the coplanar in-phase channels as well.

Magnetics

A Fugro CF1 cesium vapour magnetometer was operated at the survey base to record diurnal variations of the earth's magnetic field. The clock of the base station was synchronized with that of the airborne system to permit subsequent removal of diurnal drift.

The total magnetic field data have been presented as contours on the base maps using a contour interval of 5 nT where gradients permit. The maps show the magnetic properties of the rock units underlying the survey area.

The total magnetic field data have been subjected to a processing algorithm to produce maps of the calculated vertical gradient. This procedure enhances near-surface magnetic units and suppresses regional gradients. It also provides better definition and resolution of magnetic units and displays weak magnetic features that may not be clearly evident on the total field maps.

A moderately strong, complex magnetic dominates the western half of the property. North of tie line 19040, the general strike appears to be NNE, although the eastern contact of this unit is nearly north/south. A probable break extends WSW from the vicinity of anomaly 10120A, towards the north end of line 10010. South of that point, the main axis of the magnetic zone appears to swing south through 10120E and then southeast to 10040J.

There are no obvious clearly defined structural breaks evident on the total field map. However, there are a few subtle linear features that can be inferred from the vertical gradient data. Most of these appear to favour one of two alignment directions, NE or ESE, although there are two possible breaks that strike north. This weak evidence suggests that the survey area has been subjected to deformation and/or alteration. These structural complexities are evident on the vertical gradient maps as variations in magnetic intensity, irregular patterns, and as offsets or changes in strike direction.

If a specific magnetic intensity can be assigned to the rock type that is believed to host the target mineralization, it may be possible to select areas of higher priority on the basis of the total field magnetic data. This is based on the assumption that the magnetite content of the host rocks will give rise to a limited range of contour values that will permit differentiation of various lithological units.

The magnetic results, in conjunction with the other geophysical parameters, have provided valuable information that can be used to effectively map the geology and structure in the survey area.

Apparent Resistivity

Apparent resistivity maps, which display the conductive properties of the survey area, were produced from the 7200 Hz and 56000 Hz coplanar data. The maximum resistivity values,

which are calculated for each frequency, are 8000 and 22050 ohm·m respectively. These cutoffs eliminate the erratic higher resistivities that would result from unstable ratios of very small EM amplitudes.

In general, the resistivity patterns show only moderate agreement with the magnetic trends. This suggests that at least some of the resistivity lows are probably related to weakly conductive cover in the main valleys. One of the stronger conductors, near the western claim boundary (10040C) occurs near the northwestern shore of a small lake and along a southwest-trending outflowing stream. A second, stronger response at 10500A, strikes ENE from the eastern edge of a glacier. Many of the other possible bedrock conductors lie in close proximity to streams or valleys, some of which may be fault controlled.

There is an apparent correlation between some of the resistive zones and the smaller magnetic units. Example can be seen in the southwestern quadrant at anomaly 10020H, on line 10030 at fiducial 7448, line 10120 at 3428, and at anomaly 10220B. These could reflect zones of increased magnetite content, resistive unweathered rock units, outcrop areas with little overburden, or a combination of all three. None of the inferred bedrock conductors on the property yields direct magnetic correlation.

Electromagnetic Anomalies

The EM anomalies resulting from this survey appear to fall within one of three general categories. The first type consists of discrete, well-defined anomalies that yield marked inflections on the difference channels. These anomalies are usually attributed to conductive sulphides or graphite and are generally given a "B", "T" or "D" interpretive symbol, denoting a bedrock source.

The second class of anomalies comprises moderately broad responses that exhibit the characteristics of a half-space and do not yield well-defined inflections on the difference channels. Anomalies in this category are usually given an "S" or "H" interpretive symbol. The lack of a difference channel response usually implies a broad or flat-lying conductive source such as overburden. Some of these anomalies could reflect conductive rock units, zones of deep weathering, or the weathered tops of kimberlite pipes, all of which can yield "non-discrete" signatures.

The effects of conductive overburden are evident over portions of the survey area. Although the difference channels (DIFI and DIFQ) are extremely valuable in detecting bedrock conductors that are partially masked by conductive overburden, sharp undulations in the bedrock/overburden interface can yield anomalies in the difference channels which may be interpreted as possible bedrock conductors. Such anomalies usually fall into the "S?" or "B?" classification but may also be given an "E" interpretive symbol, denoting a resistivity contrast at the edge of a conductive unit.

The "?" symbol does not question the validity of an anomaly, but instead indicates some degree of uncertainty as to which is the most appropriate EM source model. This ambiguity results from the combination of effects from two or more conductive sources, such as overburden and bedrock, gradational changes, or moderately shallow dips; or from the suspected presence of culture. The presence of a conductive upper layer has a tendency to mask or alter the characteristics of bedrock conductors, making interpretation difficult. This problem is further exacerbated in the presence of magnetite, which is present in this survey area on several lines.

The third class consists of magnetite-hosted quadrature responses. In the areas where EM responses are evident primarily on the quadrature components, zones of poor conductivity are indicated. Where these responses are coincident with magnetic anomalies, it is possible that the in-phase component amplitudes have been suppressed by the effects of magnetite. Poorly-conductive magnetic features can give rise to resistivity anomalies that are only slightly below or slightly above background. If it is expected that poorly-conductive economic mineralization could be associated with magnetite-rich units, most of these weakly anomalous features will be of interest. In areas where magnetite causes the in-phase components to become negative, the apparent conductance and depth of EM anomalies will be unreliable. Magnetite effects usually give rise to overstated (higher) resistivity values and understated (shallow) depth calculations.

Potential Targets in the Survey Area

The electromagnetic anomaly maps show the anomaly locations with the interpreted conductor type, dip, conductance and depth being indicated by symbols. Direct magnetic correlation is also shown if it exists. Conductor axes have been shown only where correlation from line to line can be determined with a reasonable degree of confidence.

Although zones of massive sulphide mineralization on the property should yield a distinct EM anomaly, any disseminated (porphyry) zones might not be conductive or resistive enough to exhibit a well defined contrast with the surrounding units. At least some of the porphyry deposits in B.C. yield relative resistivity highs, rather than lows. The Mt. Milligan deposit is one such example. The Mt. Milligan zone also hosts three areas of slightly elevated magnetic susceptibility. Therefore, any plug-like resistive units in the Voigtberg project area should obviously be considered potential targets, particularly those that exhibit weak to moderate magnetic correlation.

Vein-type mineralization on the property may not be conductive enough to override the opposing effects of the more resistive quartz-carbonate host, and would be unlikely to yield resistivity lows. However, if the unweathered quartz-rich units are thick enough, it is possible that they could give rise to relative resistivity highs. Conversely, faults and shear zones can often be moderately conductive due to the increased porosity or development of alteration products. Because of these factors, it is impractical to assess the relative merits of EM anomalies on the basis of conductance. It is recommended that an attempt be made to compile a suite of geophysical "signatures" over any known areas of interest. Anomaly

characteristics are clearly defined on the multi-parameter geophysical data profiles that are supplied as one of the survey products.

It is beyond the scope of this report to attempt to describe the 400 anomalies detected by the survey. The following paragraphs provide a very brief description of some of the more discrete (sulphide-type) conductors, and a few other responses that appear to be associated with possible faults, shears or non-magnetic intrusions that can be inferred from the magnetic data. The discussion does not include any of the plug-like resistive or weakly conductive units that could reflect porphyritic intrusions. These larger zones should be more evident on the high frequency resistivity map.

Many of the magnetite associated responses also give rise to resistivity highs. These are usually evident on the low frequency 900Hz profiles as negative excursions of the in-phase component. If these negatives correlate with anomalous (positive) responses on the quadrature parameter or high frequencies, they often carry an "S?" symbol. However, they could reflect skarn-type mineralization, rather than conductive overburden.

A moderately strong resistivity low that hosts one or two conductors, strikes NE from 10130C and 10130D. These anomalies could reflect two thin sources with a separation of about 70 m, or a single source with a similar approximate width. Anomaly 10050A suggests a single source with a probable dip to the north. The conductive zone is non-magnetic and is located near the northern contact of a magnetic unit that underlies a small

ice field. This 400 m-long conductor roughly follows a SW-trending valley, and could continue in this direction beyond the limits of survey coverage.

Anomalies 10480B-10490A, 10480C-10510B and 10510A, reflect two parallel highly conductive thin sources with probable dips to the north. These anomalies give rise to a strong resistivity low that strikes ENE (66°) over a distance of about 450 m. Its western limit, at 10480C, appears to terminate near the edge of a glacier. The video records show a rusty discoloration near anomaly 10490B that could reflect a gossan. This highly conductive zone is associated with a relative magnetic low that intersects a second north-trending magnetic low that follows a stream valley. Both the ENE and north-trending lows could reflect faults or non-magnetic intrusions. This is one of the more attractive sulphide-type conductors on the property, and should be subjected to further investigation in order to determine its causative source. The highly-conductive, non-magnetic characteristics, however, could reflect a graphitic source rather than non-magnetic sulphides.

Anomalies 10541A and 10541B are both weak and poorly defined, and they occur near the confluence of two streams. These would both normally constitute low priority targets, were it not for the fact that they give rise to a moderately weak, but distinct resistivity low on the 900 Hz frequency. The magnetic low tends to follow the stream valley to the south and west, suggesting that a flat-lying upper magnetic layer may have been incised or eroded. Anomaly 10440C occurs on the same topographic depression/ magnetic low about 1 km to the WSW, while 10420C occurs roughly 300 m SSW of 10440C. Both of these are weak responses. Anomaly 10420C is located near the eastern edge of a glacier.

Anomaly 10360A is also located at the edge of a glacier, in a broad unit of low magnetic susceptibility. This weakly conductive response appears to be due to surficial conductivity, but is part of a broad south-trending resistivity low on the 7200 Hz frequency. Anomalies 10130B, 10140E and 10150D are all located in close proximity to each other, but may be due to three separate, short conductors. All three are contained within an ENE-trending resistivity low that follows a stream valley that is also coincident with a linear magnetic low. Small lenses or pods of magnetic material occur in the general vicinity of these conductive responses, although the conductors themselves are non-magnetic. Although these responses could be partially due to variations in survey height and near-surface resistivities within the steep valley, the structural complexity and the interesting magnetic lows tend to enhance the significance of these moderately weak, poorly-defined responses.

Anomalies 10180D and 10190D are part of the same resistivity low that hosts 10130B and 10140E. Both have been attributed to weak conductors at surface, but the weak magnetic correlation tends to enhance their significance. Both could reflect weakly conductive bedrock sources.

Anomaly 10140G is also located at the edge of a SW-trending valley, near the confluence of three streams. The main valley correlates with a NE-trending magnetic low and may be fault-controlled. Anomaly 10140G is in close proximity to an inferred intersection with an

ESE-trending magnetic low that strikes through 10180H. The anomaly characteristics suggest a probable thin, weakly conductive source of limited strike extent.

Anomaly 19060J is evident on the tie line, but is not clearly defined on the adjacent traverse lines, 10280 or 10290. This response is also associated with a SE-trending stream that correlates with a subtle linear low on the vertical gradient map. The magnetic profile on the tie line shows a short wavelength dipolar signature, indicating a small, near-surface source.

There are several small, ovate resistivity highs on the property that could reflect plug-like intrusives. Most are of limited dimensions, but the ovate high on line 10210 near fiducial 6310 is about 500 m long, along its NE axis. This resistive, weakly magnetic unit is located on a topographic high, at the south end of an ice field. Although this could be due to a porphyritic intrusion, the response on the adjacent line 1t 10220B suggests that the resistivity high is at least partially due to magnetite suppression.

The effects of magnetite are evident on several lines. Anomaly 10020H, for example, indicates a magnetite content of more than 13%. The positive quadrature suggests the presence of weakly conductive material that could either overlie the magnetite-rich unit, or be directly associated with the bedrock host. This is the type of response one might expect to observe over skarn-type mineralization.

There are many other locations on this property where the magnetic trends appear to have been intruded, faulted, or folded along strike. All of these areas of inferred structural deformation are considered to be potential areas of interest that may warrant further investigation, particularly if shear-hosted or non-magnetic quartz-carbonate hosted vein-type mineralization is expected in the survey area.

8. CONCLUSIONS AND RECOMMENDATIONS

This report provides a very brief description of the survey results and describes the equipment, data processing procedures and logistics of a DIGHEM V survey flown for Equity Engineering Ltd. and BC Gold Corp., from August 11 to August 13, 2007. Airborne coverage consisted of approximately 404 line-km on the Voigtberg property, located near Galore Creek, B.C.

The survey was successful in locating several conductive zones, at least two of which have been attributed to massive sulphides or graphite. In addition, there are a few shorter, weaker, conductors that may also warrant additional work. At least one plug-like resistivity high yielded a response signature that is typical of those observed over other B.C. porphyries. One magnetite-rich zone observed on line 10020 contains more than 13% magnetite, and yields a geophysical response similar to that which would be expected over skarn-type mineralization.

The various maps included with this report display the magnetic and conductive properties of the survey area. It is recommended that a complete assessment and detailed evaluation of the survey results be carried out, in conjunction with all available geophysical, geological and geochemical information. Particular reference should be made to the multi-parameter data profiles that clearly define the characteristics of the individual anomalies.

Anomalies in the area vary in amplitude and shape. A few are moderately strong and well defined. Some weaker responses have been attributed to conductive overburden or deep sources, although a few appear to be associated with magnetite-rich rock units. Others coincide with magnetic gradients that may reflect contacts, faults or shears. Such structural breaks are considered to be of particular interest as they may have influenced mineral deposition within the survey area.

The interpreted bedrock conductors and anomalous targets defined by the survey should be subjected to further investigation, using appropriate surface exploration techniques. Anomalies that are currently considered to be of moderately low priority may require upgrading if follow-up results are favourable. It is also recommended that additional processing of existing geophysical data be considered, in order to extract the maximum amount of information from the survey results. Current software and imaging techniques often provide valuable information on structure and lithology, which may not be clearly evident on the contour and colour maps. These techniques can yield images that define subtle, but significant, structural details.

Respectfully submitted,

FUGRO AIRBORNE SURVEYS CORP.

R07037

APPENDIX A

LIST OF PERSONNEL

The following personnel were involved in the acquisition, processing, interpretation and presentation of data, relating to a DIGHEM airborne geophysical survey carried out for Equity Engineering Ltd., over the Voigtberg Project, Galore Creek, B.C.

David Miles	Manager, Helicopter Operations
Emily Farquhar	Manager, Data Processing and Interpretation
Nick Gavican	Senior Geophysical Operator; Crew Leader
Sheli Droszio	Field Geophysicist
Terry Thompson	Pilot; Questral Helicopters Ltd.
Stephen Harrison	Geophysicist; Data Processor
Paul A. Smith	Interpretation Geophysicist
Lyn Vanderstarren	Drafting Supervisor
Susan Pothiah	Word Processing Operator
Albina Tonello	Secretary/Expeditor

The survey consisted of 404 km of coverage, flown from August 11 to August 13, 2007.

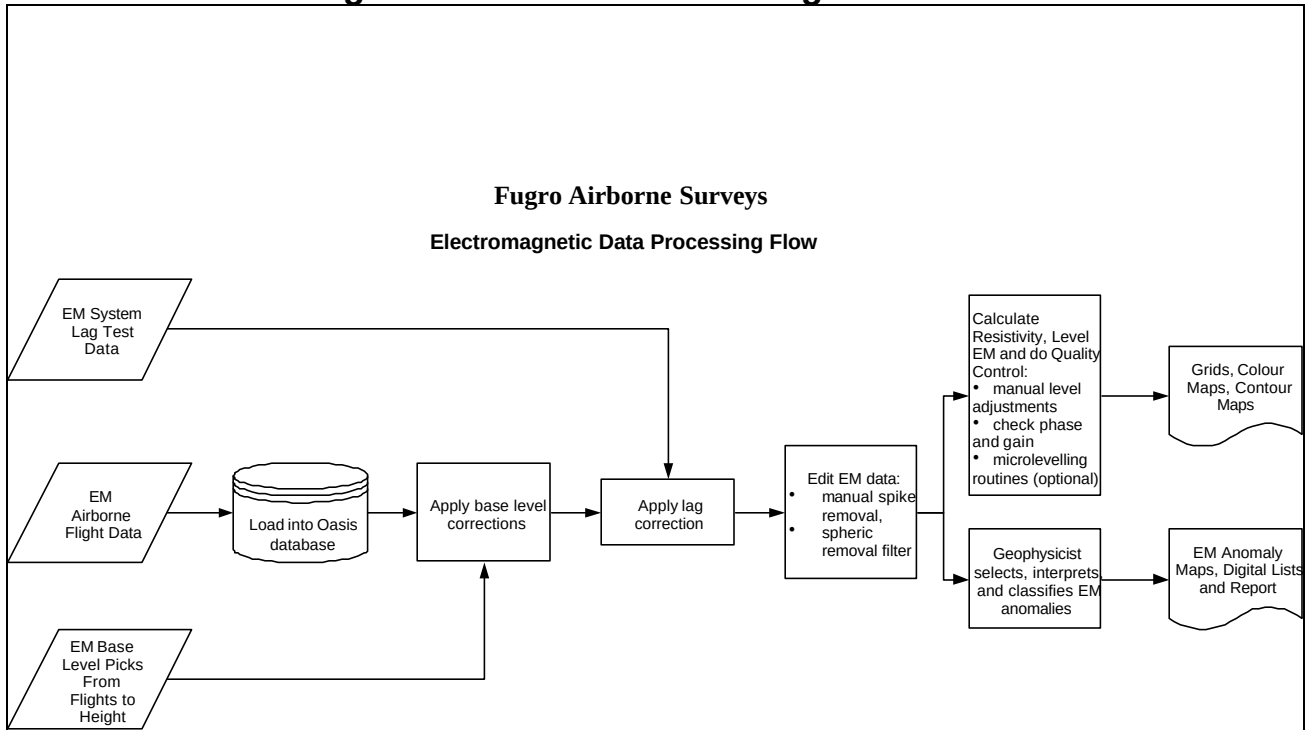
All personnel are employees of Fugro Airborne Surveys, except for the pilot who is an employee of Questral Helicopters Ltd.

APPENDIX B

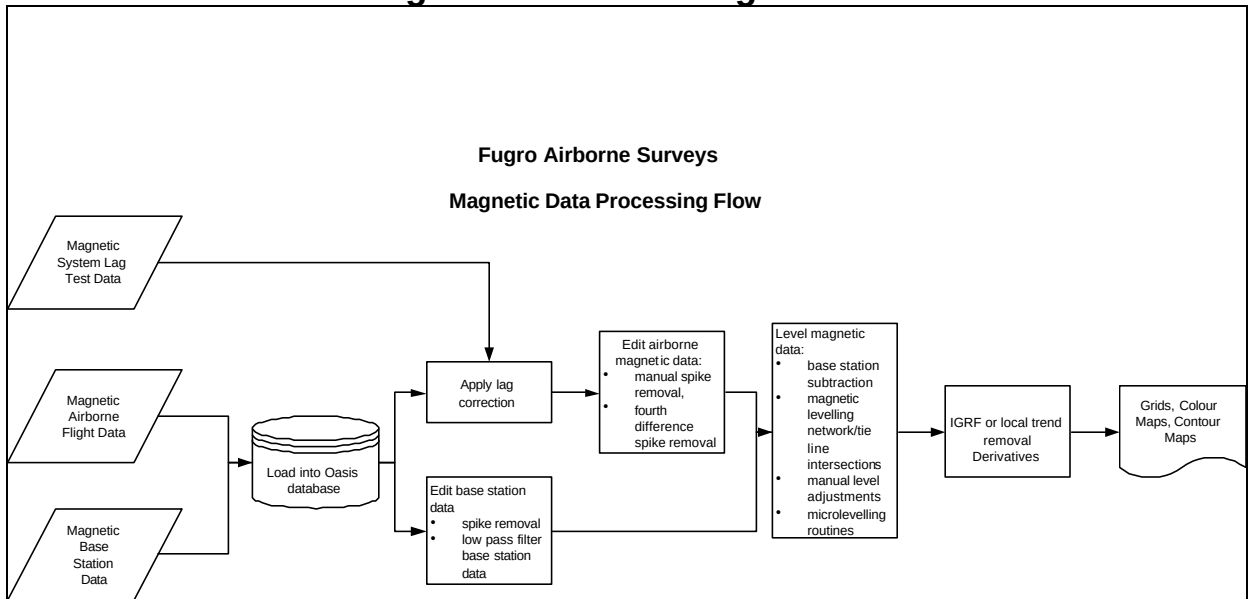
DATA PROCESSING FLOWCHARTS

APPENDIX B

Processing Flow Chart - Electromagnetic Data



Processing Flow Chart - Magnetic Data



APPENDIX C

BACKGROUND INFORMATION

BACKGROUND INFORMATION

Electromagnetics

Fugro electromagnetic responses fall into two general classes, discrete and broad. The discrete class consists of sharp, well-defined anomalies from discrete conductors such as sulphide lenses and steeply dipping sheets of graphite and sulphides. The broad class consists of wide anomalies from conductors having a large horizontal surface such as flatly dipping graphite or sulphide sheets, saline water-saturated sedimentary formations, conductive overburden and rock, kimberlite pipes and geothermal zones. A vertical conductive slab with a width of 200 m would straddle these two classes.

The vertical sheet (half plane) is the most common model used for the analysis of discrete conductors. All anomalies plotted on the geophysical maps are analyzed according to this model. The following section entitled **Discrete Conductor Analysis** describes this model in detail, including the effect of using it on anomalies caused by broad conductors such as conductive overburden.

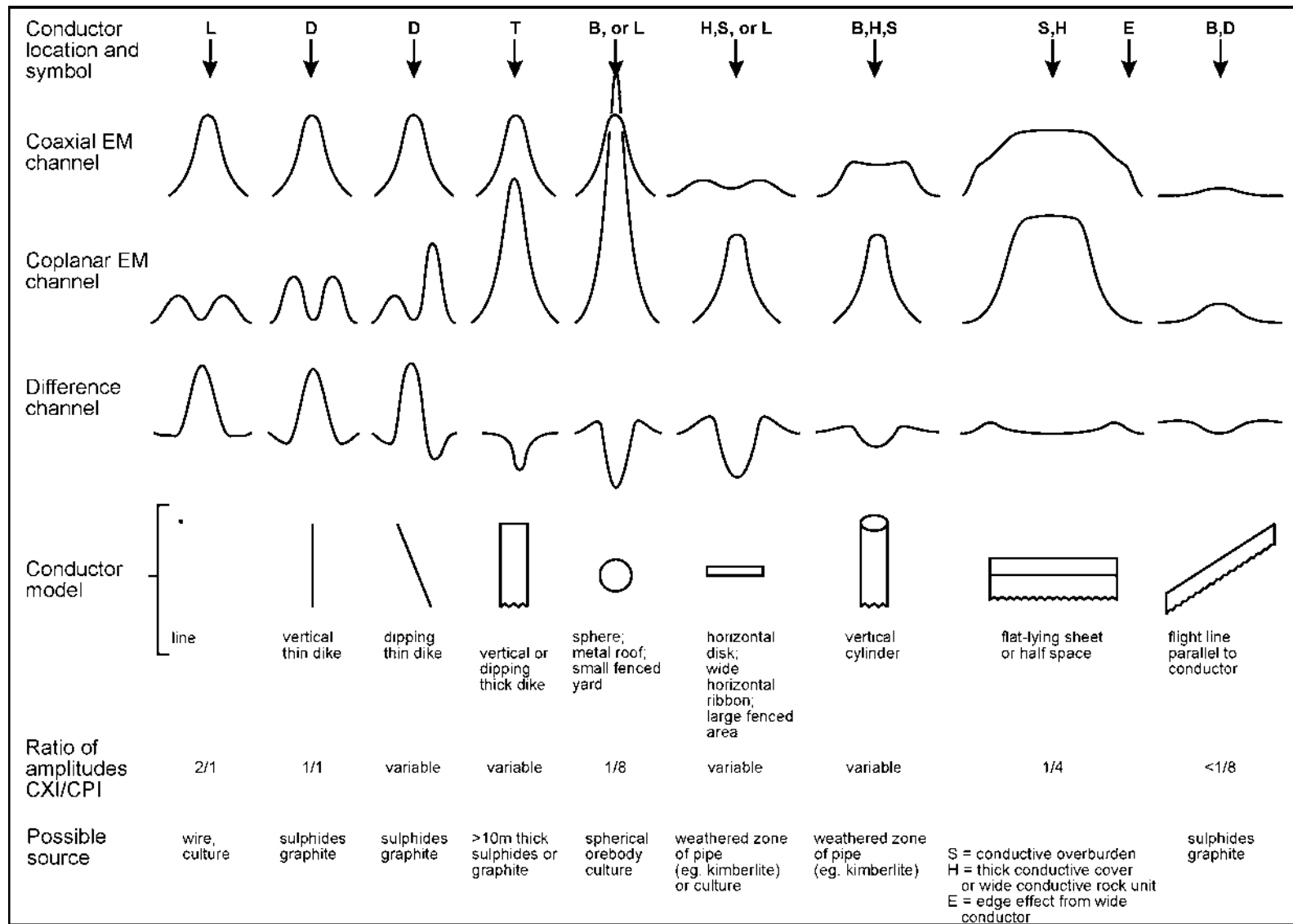
The conductive earth (half-space) model is suitable for broad conductors. Resistivity contour maps result from the use of this model. A later section entitled **Resistivity Mapping** describes the method further, including the effect of using it on anomalies caused by discrete conductors such as sulphide bodies.

Geometric Interpretation

The geophysical interpreter attempts to determine the geometric shape and dip of the conductor. Figure C-1 shows typical HEM anomaly shapes which are used to guide the geometric interpretation.

Discrete Conductor Analysis

The EM anomalies appearing on the electromagnetic map are analyzed by computer to give the conductance (i.e., conductivity-thickness product) in siemens (mhos) of a vertical sheet model. This is done regardless of the interpreted geometric shape of the conductor. This is not an unreasonable procedure, because the computed conductance increases as the electrical quality of the conductor increases, regardless of its true shape. DIGHEM anomalies are divided into seven grades of conductance, as shown in Table C-1. The conductance in siemens (mhos) is the reciprocal of resistance in ohms.



Typical HEM anomaly shapes

Figure C-1

The conductance value is a geological parameter because it is a characteristic of the conductor alone. It generally is independent of frequency, flying height or depth of burial, apart from the averaging over a greater portion of the conductor as height increases. Small anomalies from deeply buried strong conductors are not confused with small anomalies from shallow weak conductors because the former will have larger conductance values.

Table C-1. EM Anomaly Grades

Anomaly Grade	Siemens
7	> 100
6	50 - 100
5	20 - 50
4	10 - 20
3	5 - 10
2	1 - 5
1	< 1

Conductive overburden generally produces broad EM responses which may not be shown as anomalies on the geophysical maps. However, patchy conductive overburden in otherwise resistive areas can yield discrete anomalies with a conductance grade (cf. Table C-1) of 1, 2 or even 3 for conducting clays which have resistivities as low as 50 ohm-m. In areas where ground resistivities are below 10 ohm-m, anomalies caused by weathering variations and similar causes can have any conductance grade. The anomaly shapes from the multiple coils often allow such conductors to be recognized, and these are indicated by the letters S, H, and sometimes E on the geophysical maps (see EM legend on maps).

For bedrock conductors, the higher anomaly grades indicate increasingly higher conductances. Examples: the New Inco copper discovery (Noranda, Canada) yielded a grade 5 anomaly, as did the neighbouring copper-zinc Magusi River ore body; Mattabi (copper-zinc, Sturgeon Lake, Canada) and Whistle (nickel, Sudbury, Canada) gave grade 6; and the Montcalm nickel-copper discovery (Timmins, Canada) yielded a grade 7 anomaly. Graphite and sulphides can span all grades but, in any particular survey area, field work may show that the different grades indicate different types of conductors.

Strong conductors (i.e., grades 6 and 7) are characteristic of massive sulphides or graphite. Moderate conductors (grades 4 and 5) typically reflect graphite or sulphides of a less massive character, while weak bedrock conductors (grades 1 to 3) can signify poorly connected graphite or heavily disseminated sulphides. Grades 1 and 2 conductors may not respond to ground EM equipment using frequencies less than 2000 Hz.

The presence of sphalerite or gangue can result in ore deposits having weak to moderate conductances. As an example, the three million ton lead-zinc deposit of Restigouche Mining Corporation near Bathurst, Canada, yielded a well-defined grade 2 conductor. The 10 percent by volume of sphalerite occurs as a coating around the fine grained massive pyrite, thereby inhibiting electrical conduction. Faults, fractures and shear zones may

- Appendix C.4 -

produce anomalies that typically have low conductances (e.g., grades 1 to 3). Conductive rock formations can yield anomalies of any conductance grade. The conductive materials in such rock formations can be salt water, weathered products such as clays, original depositional clays, and carbonaceous material.

For each interpreted electromagnetic anomaly on the geophysical maps, a letter identifier and an interpretive symbol are plotted beside the EM grade symbol. The horizontal rows of dots, under the interpretive symbol, indicate the anomaly amplitude on the flight record. The vertical column of dots, under the anomaly letter, gives the estimated depth. In areas where anomalies are crowded, the letter identifiers, interpretive symbols and dots may be obliterated. The EM grade symbols, however, will always be discernible, and the obliterated information can be obtained from the anomaly listing appended to this report.

The purpose of indicating the anomaly amplitude by dots is to provide an estimate of the reliability of the conductance calculation. Thus, a conductance value obtained from a large ppm anomaly (3 or 4 dots) will tend to be accurate whereas one obtained from a small ppm anomaly (no dots) could be quite inaccurate. The absence of amplitude dots indicates that the anomaly from the coaxial coil-pair is 5 ppm or less on both the in-phase and quadrature channels. Such small anomalies could reflect a weak conductor at the surface or a stronger conductor at depth. The conductance grade and depth estimate illustrates which of these possibilities fits the recorded data best.

The conductance measurement is considered more reliable than the depth estimate. There are a number of factors that can produce an error in the depth estimate, including the averaging of topographic variations by the altimeter, overlying conductive overburden, and the location and attitude of the conductor relative to the flight line. Conductor location and attitude can provide an erroneous depth estimate because the stronger part of the conductor may be deeper or to one side of the flight line, or because it has a shallow dip. A heavy tree cover can also produce errors in depth estimates. This is because the depth estimate is computed as the distance of bird from conductor, minus the altimeter reading. The altimeter can lock onto the top of a dense forest canopy. This situation yields an erroneously large depth estimate but does not affect the conductance estimate.

Dip symbols are used to indicate the direction of dip of conductors. These symbols are used only when the anomaly shapes are unambiguous, which usually requires a fairly resistive environment.

A further interpretation is presented on the EM map by means of the line-to-line correlation of bedrock anomalies, which is based on a comparison of anomaly shapes on adjacent lines. This provides conductor axes that may define the geological structure over portions of the survey area. The absence of conductor axes in an area implies that anomalies could not be correlated from line to line with reasonable confidence.

The electromagnetic anomalies are designed to provide a correct impression of conductor quality by means of the conductance grade symbols. The symbols can stand alone with

- Appendix C.5 -

geology when planning a follow-up program. The actual conductance values are printed in the attached anomaly list for those who wish quantitative data. The anomaly ppm and depth are indicated by inconspicuous dots which should not distract from the conductor patterns, while being helpful to those who wish this information. The map provides an interpretation of conductors in terms of length, strike and dip, geometric shape, conductance, depth, and thickness. The accuracy is comparable to an interpretation from a high quality ground EM survey having the same line spacing.

The appended EM anomaly list provides a tabulation of anomalies in ppm, conductance, and depth for the vertical sheet model. No conductance or depth estimates are shown for weak anomalous responses that are not of sufficient amplitude to yield reliable calculations.

Since discrete bodies normally are the targets of EM surveys, local base (or zero) levels are used to compute local anomaly amplitudes. This contrasts with the use of true zero levels which are used to compute true EM amplitudes. Local anomaly amplitudes are shown in the EM anomaly list and these are used to compute the vertical sheet parameters of conductance and depth.

Questionable Anomalies

The EM maps may contain anomalous responses that are displayed as asterisks (*). These responses denote weak anomalies of indeterminate conductance, which may reflect one of the following: a weak conductor near the surface, a strong conductor at depth (e.g., 100 to 120 m below surface) or to one side of the flight line, or aerodynamic noise. Those responses that have the appearance of valid bedrock anomalies on the flight profiles are indicated by appropriate interpretive symbols (see EM legend on maps). The others probably do not warrant further investigation unless their locations are of considerable geological interest.

The Thickness Parameter

A comparison of coaxial and coplanar shapes can provide an indication of the thickness of a steeply dipping conductor. The amplitude of the coplanar anomaly (e.g., CPI channel) increases relative to the coaxial anomaly (e.g., CXI) as the apparent thickness increases, i.e., the thickness in the horizontal plane. (The thickness is equal to the conductor width if the conductor dips at 90 degrees and strikes at right angles to the flight line.) This report refers to a conductor as thin when the thickness is likely to be less than 3 m, and thick when in excess of 10 m. Thick conductors are indicated on the EM map by parentheses "()". For base metal exploration in steeply dipping geology, thick conductors can be high priority targets because many massive sulphide ore bodies are thick. The system cannot sense the thickness when the strike of the conductor is subparallel to the flight line, when the conductor has a shallow dip, when the anomaly amplitudes are small, or when the resistivity of the environment is below 100 ohm-m.

Resistivity Mapping

Resistivity mapping is useful in areas where broad or flat lying conductive units are of interest. One example of this is the clay alteration which is associated with Carlin-type deposits in the south west United States. The resistivity parameter was able to identify the clay alteration zone over the Cove deposit. The alteration zone appeared as a strong resistivity low on the 900 Hz resistivity parameter. The 7,200 Hz and 56,000 Hz resistivities showed more detail in the covering sediments, and delineated a range front fault. This is typical in many areas of the south west United States, where conductive near surface sediments, which may sometimes be alkaline, attenuate the higher frequencies.

Resistivity mapping has proven successful for locating diatremes in diamond exploration. Weathering products from relatively soft kimberlite pipes produce a resistivity contrast with the unaltered host rock. In many cases weathered kimberlite pipes were associated with thick conductive layers that contrasted with overlying or adjacent relatively thin layers of lake bottom sediments or overburden.

Areas of widespread conductivity are commonly encountered during surveys. These conductive zones may reflect alteration zones, shallow-dipping sulphide or graphite-rich units, saline ground water, or conductive overburden. In such areas, EM amplitude changes can be generated by decreases of only 5 m in survey altitude, as well as by increases in conductivity. The typical flight record in conductive areas is characterized by in-phase and quadrature channels that are continuously active. Local EM peaks reflect either increases in conductivity of the earth or decreases in survey altitude. For such conductive areas, apparent resistivity profiles and contour maps are necessary for the correct interpretation of the airborne data. The advantage of the resistivity parameter is that anomalies caused by altitude changes are virtually eliminated, so the resistivity data reflect only those anomalies caused by conductivity changes. The resistivity analysis also helps the interpreter to differentiate between conductive bedrock and conductive overburden. For example, discrete conductors will generally appear as narrow lows on the contour map and broad conductors (e.g., overburden) will appear as wide lows.

The apparent resistivity is calculated using the pseudo-layer (or buried) half-space model defined by Fraser (1978)⁶. This model consists of a resistive layer overlying a conductive half-space. The depth channels give the apparent depth below surface of the conductive material. The apparent depth is simply the apparent thickness of the overlying resistive layer. The apparent depth (or thickness) parameter will be positive when the upper layer is more resistive than the underlying material, in which case the apparent depth may be quite close to the true depth.

⁶ Resistivity mapping with an airborne multicoil electromagnetic system: *Geophysics*, v. 43, p.144-172

- Appendix C.8 -

The apparent depth will be negative when the upper layer is more conductive than the underlying material, and will be zero when a homogeneous half-space exists. The apparent depth parameter must be interpreted cautiously because it will contain any errors that might exist in the measured altitude of the EM bird (e.g., as caused by a dense tree cover). The inputs to the resistivity algorithm are the in-phase and quadrature components of the coplanar coil-pair. The outputs are the apparent resistivity of the conductive half-space (the source) and the sensor-source distance. The flying height is not an input variable, and the output resistivity and sensor-source distance are independent of the flying height when the conductivity of the measured material is sufficient to yield significant in-phase as well as quadrature responses. The apparent depth, discussed above, is simply the sensor-source distance minus the measured altitude or flying height. Consequently, errors in the measured altitude will affect the apparent depth parameter but not the apparent resistivity parameter.

The apparent depth parameter is a useful indicator of simple layering in areas lacking a heavy tree cover. Depth information has been used for permafrost mapping, where positive apparent depths were used as a measure of permafrost thickness. However, little quantitative use has been made of negative apparent depths because the absolute value of the negative depth is not a measure of the thickness of the conductive upper layer and, therefore, is not meaningful physically. Qualitatively, a negative apparent depth estimate usually shows that the EM anomaly is caused by conductive overburden. Consequently, the apparent depth channel can be of significant help in distinguishing between overburden and bedrock conductors.

Interpretation in Conductive Environments

Environments having low background resistivities (e.g., below 30 ohm-m for a 900 Hz system) yield very large responses from the conductive ground. This usually prohibits the recognition of discrete bedrock conductors. However, Fugro data processing techniques produce three parameters that contribute significantly to the recognition of bedrock conductors in conductive environments. These are the in-phase and quadrature difference channels (DIFI and DIFQ, which are available only on systems with "common" frequencies on orthogonal coil pairs), and the resistivity and depth channels (RES and DEP) for each coplanar frequency.

The EM difference channels (DIFI and DIFQ) eliminate most of the responses from conductive ground, leaving responses from bedrock conductors, cultural features (e.g., telephone lines, fences, etc.) and edge effects. Edge effects often occur near the perimeter of broad conductive zones. This can be a source of geologic noise. While edge effects yield anomalies on the EM difference channels, they do not produce resistivity anomalies. Consequently, the resistivity channel aids in eliminating anomalies due to edge effects. On the other hand, resistivity anomalies will coincide with the most highly conductive sections of conductive ground, and this is another source of geologic noise. The recognition of a bedrock conductor in a conductive environment therefore is based on the anomalous responses of the two difference channels (DIFI and DIFQ) and the

- Appendix C.9 -

resistivity channels (RES). The most favourable situation is where anomalies coincide on all channels.

The DEP channels, which give the apparent depth to the conductive material, also help to determine whether a conductive response arises from surficial material or from a conductive zone in the bedrock. When these channels ride above the zero level on the depth profiles (i.e., depth is negative), it implies that the EM and resistivity profiles are responding primarily to a conductive upper layer, i.e., conductive overburden. If the DEP channels are below the zero level, it indicates that a resistive upper layer exists, and this usually implies the existence of a bedrock conductor. If the low frequency DEP channel is below the zero level and the high frequency DEP is above, this suggests that a bedrock conductor occurs beneath conductive cover.

Reduction of Geologic Noise

Geologic noise refers to unwanted geophysical responses. For purposes of airborne EM surveying, geologic noise refers to EM responses caused by conductive overburden and magnetic permeability. It was mentioned previously that the EM difference channels (i.e., channel DIFI for in-phase and DIFQ for quadrature) tend to eliminate the response of conductive overburden.

Magnetite produces a form of geological noise on the in-phase channels. Rocks containing less than 1% magnetite can yield negative in-phase anomalies caused by magnetic permeability. When magnetite is widely distributed throughout a survey area, the in-phase EM channels may continuously rise and fall, reflecting variations in the magnetite percentage, flying height, and overburden thickness. This can lead to difficulties in recognizing deeply buried bedrock conductors, particularly if conductive overburden also exists. However, the response of broadly distributed magnetite generally vanishes on the in-phase difference channel DIFI. This feature can be a significant aid in the recognition of conductors that occur in rocks containing accessory magnetite.

EM Magnetite Mapping

The information content of HEM data consists of a combination of conductive eddy current responses and magnetic permeability responses. The secondary field resulting from conductive eddy current flow is frequency-dependent and consists of both in-phase and quadrature components, which are positive in sign. On the other hand, the secondary field resulting from magnetic permeability is independent of frequency and consists of only an in-phase component which is negative in sign. When magnetic permeability manifests itself by decreasing the measured amount of positive in-phase, its presence may be difficult to recognize. However, when it manifests itself by yielding a negative in-phase anomaly (e.g., in the absence of eddy current flow), its presence is assured. In this latter case, the negative component can be used to estimate the percent magnetite content.

- Appendix C.10 -

A magnetite mapping technique, based on the low frequency coplanar data, can be complementary to magnetometer mapping in certain cases. Compared to magnetometry, it is far less sensitive but is more able to resolve closely spaced magnetite zones, as well as providing an estimate of the amount of magnetite in the rock. The method is sensitive to 1/4% magnetite by weight when the EM sensor is at a height of 30 m above a magnetitic half-space. It can individually resolve steep dipping narrow magnetite-rich bands which are separated by 60 m. Unlike magnetometry, the EM magnetite method is unaffected by remanent magnetism or magnetic latitude.

The EM magnetite mapping technique provides estimates of magnetite content which are usually correct within a factor of 2 when the magnetite is fairly uniformly distributed. EM magnetite maps can be generated when magnetic permeability is evident as negative in-phase responses on the data profiles.

Like magnetometry, the EM magnetite method maps only bedrock features, provided that the overburden is characterized by a general lack of magnetite. This contrasts with resistivity mapping which portrays the combined effect of bedrock and overburden.

The Susceptibility Effect

When the host rock is conductive, the positive conductivity response will usually dominate the secondary field, and the susceptibility effect⁷ will appear as a reduction in the in-phase, rather than as a negative value. The in-phase response will be lower than would be predicted by a model using zero susceptibility. At higher frequencies the in-phase conductivity response also gets larger, so a negative magnetite effect observed on the low frequency might not be observable on the higher frequencies, over the same body. The susceptibility effect is most obvious over discrete magnetite-rich zones, but also occurs over uniform geology such as a homogeneous half-space.

High magnetic susceptibility will affect the calculated apparent resistivity, if only conductivity is considered. Standard apparent resistivity algorithms use a homogeneous half-space model, with zero susceptibility. For these algorithms, the reduced in-phase response will, in most cases, make the apparent resistivity higher than it should be. It is important to note that there is nothing wrong with the data, nor is there anything wrong with the processing algorithms. The apparent difference results from the fact that the simple geological model used in processing does not match the complex geology.

⁷ Magnetic susceptibility and permeability are two measures of the same physical property. Permeability is generally given as relative permeability, μ_r , which is the permeability of the substance divided by the permeability of free space ($4 \pi \times 10^{-7}$). Magnetic susceptibility k is related to permeability by $k = \mu_r - 1$. Susceptibility is a unitless measurement, and is usually reported in units of 10^{-6} . The typical range of susceptibilities is -1 for quartz, 130 for pyrite, and up to 5×10^5 for magnetite, in 10^{-6} units (Telford et al, 1986).

Measuring and Correcting the Magnetite Effect

Theoretically, it is possible to calculate (forward model) the combined effect of electrical conductivity and magnetic susceptibility on an EM response in all environments. The difficulty lies, however, in separating out the susceptibility effect from other geological effects when deriving resistivity and susceptibility from EM data.

Over a homogeneous half-space, there is a precise relationship between in-phase, quadrature, and altitude. These are often resolved as phase angle, amplitude, and altitude. Within a reasonable range, any two of these three parameters can be used to calculate the half space resistivity. If the rock has a positive magnetic susceptibility, the in-phase component will be reduced and this departure can be recognized by comparison to the other parameters.

The algorithm used to calculate apparent susceptibility and apparent resistivity from HEM data, uses a homogeneous half-space geological model. Non half-space geology, such as horizontal layers or dipping sources, can also distort the perfect half-space relationship of the three data parameters. While it may be possible to use more complex models to calculate both rock parameters, this procedure becomes very complex and time-consuming. For basic HEM data processing, it is most practical to stick to the simplest geological model.

Magnetite reversals (reversed in-phase anomalies) have been used for many years to calculate an “FeO” or magnetite response from HEM data (Fraser, 1981). However, this technique could only be applied to data where the in-phase was observed to be negative, which happens when susceptibility is high and conductivity is low.

Applying Susceptibility Corrections

Resistivity calculations done with susceptibility correction may change the apparent resistivity. High-susceptibility conductors, that were previously masked by the susceptibility effect in standard resistivity algorithms, may become evident. In this case the susceptibility corrected apparent resistivity is a better measure of the actual resistivity of the earth. However, other geological variations, such as a deep resistive layer, can also reduce the in-phase by the same amount. In this case, susceptibility correction would not be the best method. Different geological models can apply in different areas of the same data set. The effects of susceptibility, and other effects that can create a similar response, must be considered when selecting the resistivity algorithm.

Susceptibility from EM vs Magnetic Field Data

The response of the EM system to magnetite may not match that from a magnetometer survey. First, HEM-derived susceptibility is a rock property measurement, like resistivity. Magnetic data show the total magnetic field, a measure of the potential field, not the rock

- Appendix C.12 -

property. Secondly, the shape of an anomaly depends on the shape and direction of the source magnetic field. The electromagnetic field of HEM is much different in shape from the earth's magnetic field. Total field magnetic anomalies are different at different magnetic latitudes; HEM susceptibility anomalies have the same shape regardless of their location on the earth.

In far northern latitudes, where the magnetic field is nearly vertical, the total magnetic field measurement over a thin vertical dike is very similar in shape to the anomaly from the HEM-derived susceptibility (a sharp peak over the body). The same vertical dike at the magnetic equator would yield a negative magnetic anomaly, but the HEM susceptibility anomaly would show a positive susceptibility peak.

Effects of Permeability and Dielectric Permittivity

Resistivity algorithms that assume free-space magnetic permeability and dielectric permittivity, do not yield reliable values in highly magnetic or highly resistive areas. Both magnetic polarization and displacement currents cause a decrease in the in-phase component, often resulting in negative values that yield erroneously high apparent resistivities. The effects of magnetite occur at all frequencies, but are most evident at the lowest frequency. Conversely, the negative effects of dielectric permittivity are most evident at the higher frequencies, in resistive areas.

The table below shows the effects of varying permittivity over a resistive (10,000 ohm-m) half space, at frequencies of 56,000 Hz (DIGHEM^V) and 102,000 Hz (RESOLVE).

Apparent Resistivity Calculations Effects of Permittivity on In-phase/Quadrature/Resistivity

Freq (Hz)	Coil	Sep (m)	Thres (ppm)	Alt (m)	In Phase	Quad Phase	App Res	App Depth (m)	Permittivity
56,000	CP	6.3	0.1	30	7.3	35.3	10118	-1.0	1 Air
56,000	CP	6.3	0.1	30	3.6	36.6	19838	-13.2	5 Quartz
56,000	CP	6.3	0.1	30	-1.1	38.3	81832	-25.7	10 Epidote
56,000	CP	6.3	0.1	30	-10.4	42.3	76620	-25.8	20 Granite
56,000	CP	6.3	0.1	30	-19.7	46.9	71550	-26.0	30 Diabase
56,000	CP	6.3	0.1	30	-28.7	52.0	66787	-26.1	40 Gabbro
102,000	CP	7.86	0.1	30	32.5	117.2	9409	-0.3	1 Air
102,000	CP	7.86	0.1	30	11.7	127.2	25956	-16.8	5 Quartz
102,000	CP	7.86	0.1	30	-14.0	141.6	97064	-26.5	10 Epidote
102,000	CP	7.86	0.1	30	-62.9	176.0	83995	-26.8	20 Granite
102,000	CP	7.86	0.1	30	-107.5	215.8	73320	-27.0	30 Diabase
102,000	CP	7.86	0.1	30	-147.1	259.2	64875	-27.2	40 Gabbro

Methods have been developed (Huang and Fraser, 2000, 2001) to correct apparent resistivities for the effects of permittivity and permeability. The corrected resistivities yield more credible values than if the effects of permittivity and permeability are disregarded.

Recognition of Culture

Cultural responses include all EM anomalies caused by man-made metallic objects. Such anomalies may be caused by inductive coupling or current gathering. The concern of the interpreter is to recognize when an EM response is due to culture. Points of consideration used by the interpreter, when coaxial and coplanar coil-pairs are operated at a common frequency, are as follows:

1. Channels CXPL and CPPL monitor 60 Hz radiation. An anomaly on these channels shows that the conductor is radiating power. Such an indication is normally a guarantee that the conductor is cultural. However, care must be taken to ensure that the conductor is not a geologic body that strikes across a power line, carrying leakage currents.
2. A flight that crosses a "line" (e.g., fence, telephone line, etc.) yields a centre-peaked coaxial anomaly and an m-shaped coplanar anomaly.⁸ When the flight crosses the cultural line at a high angle of intersection, the amplitude ratio of coaxial/coplanar response is 2. Such an EM anomaly can only be caused by a line. The geologic body that yields anomalies most closely resembling a line is the vertically dipping thin dike. Such a body, however, yields an amplitude ratio of 1 rather than 2. Consequently, an m-shaped coplanar anomaly with a CXI/CPI amplitude ratio of 2 is virtually a guarantee that the source is a cultural line.
3. A flight that crosses a sphere or horizontal disk yields centre-peaked coaxial and coplanar anomalies with a CXI/CPI amplitude ratio (i.e., coaxial/coplanar) of 1/8. In the absence of geologic bodies of this geometry, the most likely conductor is a metal roof or small fenced yard.⁹ Anomalies of this type are virtually certain to be cultural if they occur in an area of culture.
4. A flight that crosses a horizontal rectangular body or wide ribbon yields an m-shaped coaxial anomaly and a centre-peaked coplanar anomaly. In the absence of geologic bodies of this geometry, the most likely conductor is a large fenced area.⁵

⁸ See Figure C-1 presented earlier.

⁹ It is a characteristic of EM that geometrically similar anomalies are obtained from: (1) a planar conductor, and (2) a wire which forms a loop having dimensions identical to the perimeter of the equivalent planar conductor.

Anomalies of this type are virtually certain to be cultural if they occur in an area of culture.

5. EM anomalies that coincide with culture, as seen on the camera film or video display, are usually caused by culture. However, care is taken with such coincidences because a geologic conductor could occur beneath a fence, for example. In this example, the fence would be expected to yield an m-shaped coplanar anomaly as in case #2 above. If, instead, a centre-peaked coplanar anomaly occurred, there would be concern that a thick geologic conductor coincided with the cultural line.
6. The above description of anomaly shapes is valid when the culture is not conductively coupled to the environment. In this case, the anomalies arise from inductive coupling to the EM transmitter. However, when the environment is quite conductive (e.g., less than 100 ohm-m at 900 Hz), the cultural conductor may be conductively coupled to the environment. In this latter case, the anomaly shapes tend to be governed by current gathering. Current gathering can completely distort the anomaly shapes, thereby complicating the identification of cultural anomalies. In such circumstances, the interpreter can only rely on the radiation channels and on the camera film or video records.

Magnetic Responses

The measured total magnetic field provides information on the magnetic properties of the earth materials in the survey area. The information can be used to locate magnetic bodies of direct interest for exploration, and for structural and lithological mapping.

The total magnetic field response reflects the abundance of magnetic material in the source. Magnetite is the most common magnetic mineral. Other minerals such as ilmenite, pyrrhotite, franklinite, chromite, hematite, arsenopyrite, limonite and pyrite are also magnetic, but to a lesser extent than magnetite on average.

In some geological environments, an EM anomaly with magnetic correlation has a greater likelihood of being produced by sulphides than one which is non-magnetic. However, sulphide ore bodies may be non-magnetic (e.g., the Kidd Creek deposit near Timmins, Canada) as well as magnetic (e.g., the Mattabi deposit near Sturgeon Lake, Canada).

Iron ore deposits will be anomalously magnetic in comparison to surrounding rock due to the concentration of iron minerals such as magnetite, ilmenite and hematite.

Changes in magnetic susceptibility often allow rock units to be differentiated based on the total field magnetic response. Geophysical classifications may differ from geological classifications if various magnetite levels exist within one general geological classification. Geometric considerations of the source such as shape, dip and depth, inclination of the earth's field and remanent magnetization will complicate such an analysis.

- Appendix C.15 -

In general, mafic lithologies contain more magnetite and are therefore more magnetic than many sediments which tend to be weakly magnetic. Metamorphism and alteration can also increase or decrease the magnetization of a rock unit.

Textural differences on a total field magnetic contour, colour or shadow map due to the frequency of activity of the magnetic parameter resulting from inhomogeneities in the distribution of magnetite within the rock, may define certain lithologies. For example, near surface volcanics may display highly complex contour patterns with little line-to-line correlation.

Rock units may be differentiated based on the plan shapes of their total field magnetic responses. Mafic intrusive plugs can appear as isolated "bulls-eye" anomalies. Granitic intrusives appear as sub-circular zones, and may have contrasting rings due to contact metamorphism. Generally, granitic terrain will lack a pronounced strike direction, although granite gneiss may display strike.

Linear north-south units are theoretically not well-defined on total field magnetic maps in equatorial regions due to the low inclination of the earth's magnetic field. However, most stratigraphic units will have variations in composition along strike that will cause the units to appear as a series of alternating magnetic highs and lows.

Faults and shear zones may be characterized by alteration that causes destruction of magnetite (e.g., weathering) that produces a contrast with surrounding rock. Structural breaks may be filled by magnetite-rich, fracture filling material as is the case with diabase dikes, or by non-magnetic felsic material.

Faulting can also be identified by patterns in the magnetic total field contours or colours. Faults and dikes tend to appear as lineaments and often have strike lengths of several kilometres. Offsets in narrow, magnetic, stratigraphic trends also delineate structure. Sharp contrasts in magnetic lithologies may arise due to large displacements along strike-slip or dip-slip faults.

APPENDIX D

DATA ARCHIVE DESCRIPTION

APPENDIX D

ARCHIVE DESCRIPTION

Reference # : CCD02540
Number of CD's: 1
Archive Date : 2007-October 16

This archive contains final data archives, grids and map files of an airborne geophysical survey conducted by FUGRO AIRBORNE SURVEYS CORP. on behalf of Equity Engineering/BCGold Corp Ltd. over the Voigtberg property in the Galore Creek area of British Columbia.

Job # 07037

***** Disc 1 of 1 *****

This archive comprises 22 files in four directories

Grids\ grids in Geosoft float (.grd) format

Voigtberg_dem	- Digital Elevation Model (m)
Voigtberg_tfmag	- Total Magnetic Field (nT)
Voigtberg_cvg	- calculated vertical gradient (nT/m)
Voigtberg_res900	- apparent resistivity 900 Hz (ohm.m)
Voigtberg_res7200	- apparent resistivity 7200 Hz (ohm.m)
Voigtberg_res56k	- apparent resistivity 56K Hz (ohm.m)

Linedata\ databases in Geosoft ASCII/binary format

archive.txt	- archive description file
anomalies.txt	- anomaly archive description file
Voigtberg_anomalies.xyz	- anomaly linedata archive in Geosoft ASCII format
Voigtberg.xyz	- linedata archive in Geosoft ASCII format
Voigtberg.gdb	- linedata archive in Geosoft binary format

PDF\ Adobe Acrobat files of map products pdf v1.3

Voigtberg_aem	- Electromagnetic Anomalies
Voigtberg_tfmag	- Total Magnetic Field (nT)
Voigtberg_cvg	- Calculated Vertical Gradient (nT/m)
Voigtberg_res7200	- Apparent Resistivity 7200 Hz (ohm.m)
Voigtberg_res56k	- Apparent Resistivity 56K Hz (ohm.m)

- Appendix D.2 -

Report\ Adobe Acrobat format

r07037_oct.pdf - final report

The coordinate system for all grids and the data archive is projected as follows

Datum	NAD83
Spheroid	GRS80
Projection	UTM Zone 9
Central meridian	-129 West
False easting	500000
False northing	0
Scale factor	0.9996
Northern parallel	N/A
Base parallel	N/A
WGS84 to local conversion method	Molodensky
Delta X shift	+0
Delta Y shift	-0
Delta Z shift	-0

If you have any problems with this archive please contact

Processing Manager
FUGRO AIRBORNE SURVEYS CORP.
2270 Argentia Road, Unit 2
Mississauga, Ontario
Canada L5N 6A6
Tel (905) 812-0212
Fax (905) 812-1504
E-mail toronto@fugroairborne.com

- Appendix D.3 -

Geosoft ARCHIVE SUMMARY

JOB TITLE:

JOB # :07037

TYPE OF SURVEY :FUGRO Dighem, Magnetics

AREA :Voigtberg Project, Galore Creek Area, BC

CLIENT :Equity Engineering Ltd./BCGold Corp.

SURVEY DATA FORMAT: 32 CHANNELS

#	CHANNAME	TIME	UNITS	DESCRIPTION
1	x	0.1	m	easting utme-nad83 (UTM Zone 9)
2	y	0.1	m	northing utmn-nad83 (UTM Zone 9)
3	fid	0.1		fiducial increment
4	latitude	0.1		latitude NAD83
5	longitude	0.1		longitude NAD83
6	flight	0.1		flight number
7	altbird	0.1	m	bird height from radar altimeter
8	z	0.1	m	helicopter height above mean sea level
9	dem	0.1	m	digital elevation model
10	diurnal_cor	0.1	nt	diurnal correction
11	mag	0.1	nt	final total magnetic field
12	cpi900	0.1	ppm	inphase-coplanar 920 hz
13	cpq900	0.1	ppm	quadrature- coplanar 920 hz
14	cxi1000	0.1	ppm	inphase-coaxial 1113 hz
15	cxq1000	0.1	ppm	quadrature- coaxial 1113 hz
16	cxi5500	0.1	ppm	inphase -coaxial 5826 hz
17	cxq5500	0.1	ppm	quadrature -coaxial 5826 hz
18	cpi7200	0.1	ppm	inphase -coplanar 7203 hz
19	cpq7200	0.1	ppm	quadrature -coplanar 7203 hz
20	cpi56k	0.1	ppm	inphase-coplanar 53 000 hz
21	cpq56k	0.1	ppm	quadrature-coplanar 53 000 hz
22	res900	0.1	ohm-m	resistivity - 900 hz
23	res7200	0.1	ohm-m	resistivity - 7200 hz
24	res56k	0.1	ohm-m	resistivity - 56K hz
25	dep900	0.1	m	depth - 900 hz
26	dep7200	0.1	m	depth - 7200 hz
27	dep56k	0.1	m	depth - 56K hz
28	difi	0.1		difference channel based on cxi5500/cpi7200
29	difq	0.1		difference channel based on cxq5500/cpq7200
30	CPPL	0.1		coplanar powerline monitor
31	CPSP	0.1		coplanar spherics monitor
32	CXSP	0.1		coaxial spherics monitor

ISSUE DATE :October 16, 2007

FOR WHOM :Equity Engineering Ltd./BCGold Corp.

BY WHOM :FUGRO AIRBORNE SURVEYS

2270 ARGENTIA ROAD, UNIT 2

- Appendix D.4 -

MISSISSAUGA, ONTARIO,
CANADA L5N 6A6
TEL. (905) 812-0212
FAX (905) 812-1504

APPENDIX E

EM ANOMALY LIST

EM Anomaly List

					CX 5500 HZ	CP 7200 HZ	CP 900 HZ	Vertical Dike		Mag. Corr			
Label	Fid	Interp	XUTM m	YUTM m	Real ppm	Quad ppm	Real ppm	Quad ppm	Real ppm	Quad ppm	COND siemens	DEPTH* m	NT
LINE	10010		FLIGHT 53										
A	7848.1	S?	401976	6331062	0.0	5.4	6.1	36.0	8.9	6.5	---	---	232
B	7867.4	S?	402076	6330455	0.0	10.3	46.0	56.6	5.8	9.4	---	---	0
C	7876.0	S?	402128	6330227	0.2	6.0	67.2	20.1	86.7	3.8	---	---	0
D	7888.9	S	402150	6329990	1.1	19.6	2.3	141.8	7.7	23.8	---	---	79
E	7899.8	S	402212	6329708	3.4	35.5	21.6	212.3	1.7	36.5	---	---	84
F	7914.9	S	402303	6329211	2.9	8.5	18.2	65.9	10.4	11.4	---	---	0
LINE	10020		FLIGHT 53										
A	7720.3	S?	401648	6333455	12.9	10.1	28.5	144.6	18.6	27.3	1.8	28	23
B	7716.7	S	401668	6333389	0.0	8.2	22.1	144.6	3.5	27.3	---	---	22
C	7697.6	S	401729	6333095	2.9	10.7	9.1	53.7	2.6	9.8	0.3	8	0
D	7667.2	S	401796	6332642	1.0	6.1	12.2	55.4	2.8	10.3	---	---	12
E	7619.9	S	401996	6331515	3.7	9.1	15.0	32.0	17.3	5.5	---	---	0
F	7605.5	S?	402031	6331238	0.0	6.5	18.8	48.3	26.8	8.4	---	---	0
G	7576.7	S	402154	6330625	0.0	7.9	46.2	25.1	81.2	3.8	---	---	0
H	7566.3	S?	402200	6330362	49.2	9.3	230.7	48.5	310.8	8.1	---	---	0
I	7554.2	S	402250	6330086	2.4	14.3	15.3	52.9	3.8	9.4	0.2	0	0
J	7543.5	S	402323	6329771	2.3	8.4	33.5	71.1	20.9	11.0	0.2	6	0
K	7523.0	S	402412	6329132	4.2	12.0	21.2	52.6	12.7	10.0	0.4	2	0
LINE	10030		FLIGHT 53										
A	7216.0	S	401578	6334372	0.7	7.3	7.2	43.2	2.0	7.0	---	---	0
B	7222.0	S?	401580	6334266	2.9	10.0	9.2	34.7	8.0	4.5	---	---	0
C	7258.2	B	401713	6333653	10.7	38.6	103.0	263.9	4.1	55.3	0.4	0	0
D	7261.9	D	401727	6333580	24.8	63.8	101.0	263.9	3.2	54.2	0.7	0	0
E	7293.8	S	401830	6332956	0.3	2.2	8.4	46.8	6.3	9.2	---	---	21
F	7369.6	S?	402110	6331470	0.1	6.3	8.2	34.3	9.8	5.1	---	---	0
G	7380.8	S?	402178	6331133	0.0	9.9	13.2	46.0	18.6	7.7	---	---	0
H	7393.5	S?	402226	6330699	1.2	5.2	74.4	56.0	98.7	9.6	---	---	761
I	7408.6	S?	402333	6330164	2.9	26.8	15.3	114.1	2.6	19.9	0.1	0	0
J	7427.8	S	402408	6329683	4.4	25.4	22.7	113.6	2.8	19.6	0.2	0	0
K	7442.9	S	402492	6329281	3.5	12.9	24.5	75.2	16.9	12.4	0.3	0	0
L	7454.7	S	402549	6328919	2.8	12.6	32.3	57.8	22.9	10.7	0.2	6	0
LINE	10040		FLIGHT 53										
A	7009.0	S	401758	6334037	1.5	9.2	19.8	38.7	7.8	9.8	0.1	0	0
B	6987.6	B	401783	6333800	14.6	56.8	160.8	344.7	9.9	74.4	0.4	0	0

CX = COAXIAL
CP = COPLANAR

Note: EM values shown above
are local amplitudes

*Estimated Depth may be unreliable because the
stronger part of the conductor may be deeper or
to one side of the flight line, or because of a
shallow dip or magnetite/overburden effects

EM Anomaly List

Label	Fid	Interp	XUTM m	YUTM m	CX 5500 HZ Real Quad ppm ppm	CP 7200 HZ Real Quad ppm ppm	CP 900 HZ Real Quad ppm ppm	Vertical Dike COND DEPTH* siemens m	Mag. Corr NT
LINE 10040			FLIGHT 53						
C	6982.7	D	401804	6333702	49.2 71.4	160.8 344.7	9.9 74.4	1.4 0	0
D	6972.6	E	401839	6333528	0.1 42.7	33.5 217.2	1.3 38.4	0.1 42	26
E	6892.1	S	402027	6332419	0.2 6.0	4.8 43.2	3.7 6.9	0.1 28	0
F	6825.3	S?	402207	6331549	0.2 9.6	18.7 24.8	27.4 4.8	0.1 13	60
G	6804.1	S?	402314	6330858	1.4 4.0	0.9 20.6	1.6 3.6	0.3 30	39
H	6774.2	S	402447	6330022	4.2 10.8	16.1 36.6	3.0 7.6	0.4 5	0
I	6743.8	S	402602	6329219	11.6 15.5	41.5 69.3	42.8 13.1	1.0 14	0
J	6722.4	S	402672	6328815	9.5 10.1	24.4 63.0	29.2 11.4	1.2 18	0
LINE 10050			FLIGHT 53						
A	6436.8	B	401886	6333755	18.8 70.1	48.6 193.3	4.0 36.7	0.5 0	0
B	6579.4	S?	402356	6331223	4.6 5.9	23.2 30.7	36.4 4.8	--- ---	68
C	6598.3	S?	402466	6330502	11.7 10.0	41.9 38.0	52.9 7.3	--- ---	782
D	6614.6	S	402577	6329895	3.3 24.9	31.4 186.2	11.7 33.2	0.1 0	0
E	6644.7	S	402701	6329104	3.6 10.4	19.9 63.0	12.6 11.6	0.3 14	0
LINE 10060			FLIGHT 53						
A	6293.5	B?	401965	6333911	6.3 32.9	34.3 158.9	1.7 26.4	0.2 0	0
B	6288.0	B?	401988	6333844	6.9 31.6	34.3 158.9	3.9 26.4	0.3 0	0
C	6188.0	S	402167	6332824	2.9 6.6	8.3 17.3	7.3 2.5	--- ---	0
D	6066.5	S	402669	6330022	3.1 18.1	23.4 78.0	2.5 15.0	0.2 0	0
E	6025.1	S	402847	6328960	1.9 8.3	8.5 36.4	5.5 6.5	0.2 8	0
LINE 10070			FLIGHT 53						
A	5698.0	S?	402044	6333935	0.0 2.4	11.1 32.1	2.6 6.2	--- ---	0
B	5874.9	S	402469	6331757	2.5 22.2	20.0 141.2	2.0 23.5	0.1 0	0
C	5915.0	S?	402722	6330257	2.3 34.0	18.7 131.8	21.6 23.6	0.1 0	0
D	5923.6	S	402784	6329943	1.9 13.2	12.6 87.5	4.0 16.4	0.1 0	17
LINE 10080			FLIGHT 53						
A	5426.2	S?	402153	6334037	2.5 13.8	6.1 47.0	2.3 6.9	0.2 0	0
B	5261.0	S	402532	6331930	1.7 9.5	24.6 118.0	15.9 21.1	0.2 2	0
C	5240.7	S	402676	6331211	5.2 4.2	36.6 14.1	10.0 5.7	--- ---	0
D	5215.3	S	402814	6330312	6.4 16.1	21.3 91.1	11.7 15.3	0.4 8	0
LINE 10090			FLIGHT 53						
A	4889.7	S?	402326	6333642	4.3 1.9	16.2 15.9	21.9 3.0	--- ---	0
B	4988.5	S?	402508	6332709	3.9 9.5	10.0 41.2	19.9 6.5	--- ---	0

CX = COAXIAL
CP = COPLANAR

Note: EM values shown above
are local amplitudes

*Estimated Depth may be unreliable because the
stronger part of the conductor may be deeper or
to one side of the flight line, or because of a

Area A

- 2 -

shallow dip or magnetite/overburden effects

EM Anomaly List

Label	Fid	Interp	XUTM m	YUTM m	CX 5500 HZ Real Quad ppm ppm	CP 7200 HZ Real Quad ppm ppm	CP 900 HZ Real Quad ppm ppm	Vertical Dike COND DEPTH* siemens m	Mag. Corr NT
LINE 10090			FLIGHT 53						
C	5016.5	S	402623	6331945	1.3 10.8	10.4 70.0	3.4 13.2	0.1 0	0
D	5036.7	S	402762	6331228	8.5 27.5	50.7 146.1	25.9 29.0	0.4 0	8
E	5044.3	S?	402804	6330992	0.8 48.2	42.3 238.0	1.3 43.6	0.1 6	20
F	5058.0	S?	402870	6330574	3.5 17.8	4.0 65.1	0.8 11.5	0.2 0	213
G	5072.2	S?	402949	6330051	0.1 16.9	12.6 55.5	20.6 10.0	0.1 30	21
H	5087.9	S	403055	6329526	2.1 15.0	16.4 91.9	2.0 16.6	0.1 0	113
LINE 10100			FLIGHT 53						
A	4584.0	S?	402723	6332023	2.1 25.3	7.0 122.0	0.1 21.3	0.1 0	0
B	4551.8	S?	402831	6331398	0.0 18.3	37.9 129.6	2.4 25.3	0.1 34	22
C	4536.9	S?	402866	6331236	7.7 39.4	56.5 168.5	3.9 29.8	0.3 0	14
D	4511.7	S	402934	6330811	5.9 15.0	29.7 77.0	13.1 13.6	0.4 0	0
E	4479.6	S?	403079	6329971	0.0 10.5	4.9 55.8	11.9 9.2	0.1 31	34
F	4466.9	S	403115	6329817	4.6 14.5	25.0 95.3	4.5 17.6	0.3 0	0
G	4446.9	S	403169	6329434	3.3 15.1	11.1 61.6	2.3 11.8	0.2 0	107
H	4409.4	S	403301	6328764	1.9 18.2	18.7 117.0	6.7 20.8	0.1 0	0
LINE 10110			FLIGHT 53						
A	4158.6	S	402797	6332096	2.0 20.0	10.4 75.1	3.5 13.0	0.1 0	0
B	4210.0	S?	402957	6331188	5.5 43.0	40.1 200.8	0.4 37.1	0.2 0	0
C	4224.0	E	403000	6331043	4.1 20.9	36.2 40.2	0.1 9.7	0.2 0	0
D	4257.3	S	403122	6330239	3.0 47.4	26.0 178.2	3.6 31.4	0.1 0	0
LINE 10120			FLIGHT 53						
A	3614.0	S?	402844	6332432	5.7 9.5	12.4 34.8	25.1 7.1	--- ---	120
B	3565.1	S	403017	6331368	4.1 18.1	44.4 158.5	1.2 28.1	0.2 1	0
C	3547.6	S?	403051	6331218	7.0 28.9	53.7 172.2	2.9 32.7	0.3 0	0
D	3541.0	E	403062	6331151	3.1 18.9	34.0 89.1	2.0 18.6	0.2 0	0
E	3493.7	S	403213	6330382	3.2 14.6	23.0 96.8	2.4 17.8	0.2 0	0
F	3467.2	S	403297	6329786	2.0 11.4	9.6 93.4	1.4 14.5	0.2 0	0
LINE 10130			FLIGHT 53						
A	3149.0	S?	403043	6331880	0.0 23.8	24.8 86.4	27.0 14.7	0.1 30	67
B	3190.3	B?	403152	6331298	6.8 83.4	32.8 206.6	2.6 36.7	0.2 0	0
C	3207.8	S	403191	6331089	2.6 14.8	14.1 50.5	0.5 5.3	0.2 9	17
D	3222.8	S	403232	6330821	2.9 15.8	17.1 76.8	2.0 14.5	0.2 2	18
E	3262.1	S?	403358	6330116	6.2 18.8	14.5 91.3	9.7 17.5	0.4 4	294
F	3281.9	S?	403437	6329677	4.1 21.8	11.7 43.7	5.6 7.8	0.2 0	0

CX = COAXIAL
CP = COPLANAR

Note:EM values shown above
are local amplitudes

*Estimated Depth may be unreliable because the
stronger part of the conductor may be deeper or
to one side of the flight line, or because of a

Area A

- 3 -

shallow dip or magnetite/overburden effects

EM Anomaly List

Label	Fid	Interp	XUTM m	YUTM m	CX 5500 HZ Real Quad ppm ppm	CP 7200 HZ Real Quad ppm ppm	CP 900 HZ Real Quad ppm ppm	Vertical Dike COND DEPTH* siemens m	Mag. Corr NT
LINE 10130			FLIGHT 53						
G	3304.4	S	403477	6329361	5.2 23.9	45.2 121.9	2.2 25.2	0.3 13	0
LINE 10140			FLIGHT 53						
A	2777.0	S	403036	6332545	8.0 21.4	19.3 86.8	9.8 16.1	0.5 0	95
B	2770.0	S	403072	6332365	2.1 18.8	17.0 98.8	25.6 17.8	0.1 0	9
C	2746.0	S?	403159	6331824	3.4 21.5	18.6 122.6	24.7 21.6	0.2 0	0
D	2727.3	S	403203	6331532	6.5 25.6	33.3 98.5	6.1 18.4	0.3 0	0
E	2714.9	B?	403228	6331456	7.1 58.3	46.0 253.5	7.4 41.5	0.2 0	13
F	2702.2	S	403250	6331350	7.4 57.1	31.8 257.7	4.4 42.6	0.2 0	0
G	2621.8	B?	403396	6330487	8.0 32.5	32.6 122.0	5.7 22.5	0.3 0	0
H	2578.3	S	403545	6329683	1.3 7.7	10.2 92.4	12.9 16.0	0.1 7	195
I	2560.6	S?	403587	6329362	1.5 21.6	29.5 57.9	1.8 8.9	0.1 0	76
J	2535.9	S	403675	6328931	7.2 39.7	70.7 264.6	7.9 48.8	0.2 0	0
LINE 10150			FLIGHT 53						
A	2224.2	S	403136	6332507	5.9 5.3	24.1 46.8	16.0 8.6	--- ---	0
B	2278.9	S	403305	6331502	5.8 16.2	16.1 44.9	1.5 6.9	0.4 3	0
C	2297.0	S	403338	6331320	4.3 20.9	17.5 98.9	1.8 17.4	0.2 0	7
D	2308.4	B	403361	6331242	0.8 11.6	13.2 136.0	6.1 22.8	0.1 7	2
E	2327.5	S?	403393	6331123	0.5 3.7	12.9 73.2	3.0 12.4	0.1 9	0
F	2376.1	S?	403508	6330345	3.8 23.4	3.6 75.6	3.7 13.4	0.2 0	0
G	2391.3	S	403587	6329969	3.9 13.2	22.6 57.3	3.6 12.4	0.3 0	0
H	2428.8	S	403706	6329266	6.7 23.2	16.1 65.8	2.3 11.1	0.4 0	0
LINE 10160			FLIGHT 53						
A	1795.2	S?	403370	6331756	0.0 11.5	7.5 60.1	4.0 11.5	0.1 18	300
B	1763.4	S	403399	6331539	9.1 50.9	68.4 345.4	4.5 58.2	0.3 0	0
C	1746.6	S	403455	6331335	3.1 26.4	20.7 188.0	0.4 31.0	0.1 0	0
D	1707.2	S	403490	6331034	2.2 10.3	18.2 48.4	4.2 9.2	0.2 3	0
E	1688.1	S	403519	6330848	5.9 24.3	29.1 139.4	4.1 25.0	0.3 2	24
F	1666.6	E	403614	6330458	5.5 25.9	36.2 108.8	7.5 22.3	0.3 0	0
G	1632.6	S	403700	6329865	5.6 34.6	48.1 235.3	1.3 43.2	0.2 0	0
H	1604.5	S	403787	6329400	3.3 20.7	10.0 96.0	1.2 16.6	0.2 0	7
LINE 10170			FLIGHT 53						
A	1359.6	S?	403551	6331303	1.1 19.4	21.4 157.8	6.2 25.1	0.1 3	0
B	1384.0	S	403597	6331076	2.7 7.9	21.5 98.1	1.8 16.8	0.3 16	0
C	1426.1	S	403719	6330345	6.8 21.2	22.6 90.5	41.3 16.1	0.4 8	0

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Area A

- 4 -

shallow dip or magnetite/overburden effects

EM Anomaly List

					CX 5500 HZ	CP 7200 HZ	CP 900 HZ	Vertical Dike		Mag. Corr			
Label	Fid	Interp	XUTM m	YUTM m	Real ppm	Quad ppm	Real ppm	Quad ppm	Real ppm	Quad ppm	COND siemens	DEPTH* m	NT
LINE 10170			FLIGHT 53										
D	1464.8	S	403823	6329725	3.2	16.2	12.8	49.8	1.8	8.8	0.2	0	0
LINE 10180			FLIGHT 52										
A	7860.2	S	403336	6333034	2.9	16.0	16.7	63.2	4.5	11.7	---	---	0
B	7893.4	S	403419	6332623	1.8	7.5	12.3	38.3	3.8	7.9	---	---	0
C	7919.0	S	403509	6332113	1.6	25.7	7.0	90.6	1.3	13.1	---	---	0
D	7949.5	S	403608	6331610	6.5	38.1	40.2	107.1	6.0	21.0	0.2	0	10
E	7958.9	S	403639	6331422	2.3	15.3	10.4	110.4	4.4	19.5	---	---	0
F	8010.9	S?	403731	6330856	5.0	8.5	25.4	82.4	12.3	19.4	0.6	27	63
G	8017.0	S	403758	6330739	2.3	19.8	18.3	31.4	12.3	9.2	0.1	0	0
H	8032.3	S	403823	6330392	8.6	16.8	30.1	76.1	21.7	17.5	0.6	12	189
I	8093.3	S?	403987	6329359	7.3	50.4	37.6	187.7	4.6	34.7	0.2	0	86
LINE 10190			FLIGHT 52										
A	7469.3	S?	403249	6334117	1.9	3.8	7.7	32.0	9.7	4.6	0.4	37	268
B	7459.0	S?	403274	6333980	1.2	7.8	5.0	36.8	8.0	5.5	0.1	0	172
C	7414.2	S	403447	6333097	2.6	12.2	4.4	51.1	1.4	8.6	0.2	0	0
D	7304.8	S	403696	6331691	11.5	38.8	45.3	171.1	8.0	33.7	0.4	0	27
E	7231.5	S	403846	6330826	5.9	18.3	68.2	184.2	8.7	38.7	0.4	6	0
F	7212.3	S	403916	6330460	4.1	13.3	26.1	67.8	2.3	14.4	0.3	10	41
G	7197.6	E	403942	6330272	12.9	20.7	44.8	83.8	49.5	14.9	0.8	14	0
H	7166.3	S?	403986	6330011	1.9	11.4	4.1	68.2	0.3	11.9	0.2	9	9
I	7152.6	S	404015	6329864	4.1	16.8	19.7	48.2	7.0	9.3	0.3	0	0
J	7126.5	S	404070	6329499	4.7	19.5	18.3	117.0	5.9	21.2	0.3	2	0
K	7116.9	S	404102	6329342	2.3	41.6	48.4	255.0	5.8	46.0	0.1	0	0
LINE 10200			FLIGHT 52										
A	6725.4	S	403544	6333046	1.7	10.5	8.4	52.0	2.7	9.5	---	---	0
B	6801.7	S?	403700	6332226	1.9	6.6	4.7	25.0	1.0	4.1	---	---	0
C	6832.5	S	403787	6331691	7.2	7.4	30.7	28.6	5.4	9.3	---	---	6
D	6843.2	E	403843	6331388	2.6	7.8	7.4	32.3	1.6	6.7	---	---	28
E	6905.8	S?	403923	6330905	2.1	6.6	27.5	73.2	6.7	15.8	---	---	0
F	6921.4	S	403995	6330545	1.8	7.8	15.1	35.3	3.1	5.9	---	---	0
G	6936.8	S?	404068	6330209	0.6	14.5	0.8	71.7	12.9	12.0	---	---	140
H	6958.2	S	404126	6329850	4.4	26.2	8.6	78.1	2.8	13.6	0.2	0	0
I	6981.1	S	404149	6329514	5.1	15.3	14.7	64.1	2.2	11.1	0.4	0	1
J	7001.8	S?	404226	6329184	8.8	55.5	63.0	409.2	1.8	70.1	0.2	0	39

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Area A

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EM Anomaly List

Label	Fid	Interp	XUTM m	YUTM m	CX 5500 HZ Real Quad ppm ppm	CP 7200 HZ Real Quad ppm ppm	CP 900 HZ Real Quad ppm ppm	Vertical Dike COND DEPTH* siemens m	Mag. Corr NT
LINE 10210				FLIGHT 52					
A	6502.3	S	403482	6333989	1.6 8.5	0.3 66.1	5.9 10.1	--- ---	0
B	6492.0	S	403500	6333882	1.9 3.3	7.9 47.2	3.2 7.0	--- ---	114
C	6439.4	S?	403656	6332997	0.2 5.4	11.1 41.5	17.0 5.7	--- ---	121
D	6419.5	S	403701	6332838	1.9 3.9	15.5 35.5	15.0 5.5	--- ---	0
E	6369.4	S?	403798	6332169	2.9 9.4	2.4 55.5	1.6 8.9	--- ---	67
F	6297.9	S	404019	6331036	2.8 7.5	14.4 52.3	3.8 10.1	0.3 15	0
G	6280.5	S	404075	6330625	3.3 12.4	17.3 67.6	2.7 12.2	0.3 7	0
H	6228.3	S?	404217	6329875	2.6 19.0	10.8 80.4	4.7 13.3	0.1 0	0
I	6205.4	S	404243	6329576	3.5 9.5	9.2 34.9	2.8 6.1	0.3 11	0
J	6181.9	S	404320	6329192	2.4 9.0	12.1 73.0	2.8 12.2	0.2 8	59
LINE 10220				FLIGHT 52					
A	5834.1	S	404005	6331581	2.1 2.4	12.4 20.9	6.4 3.9	--- ---	0
B	5862.4	S?	404070	6331199	0.0 6.2	0.1 42.8	0.0 7.4	--- ---	494
C	5877.2	S	404116	6330891	3.1 15.9	33.5 67.8	9.8 16.3	--- ---	0
D	5931.9	S	404292	6329913	1.9 12.6	5.6 40.4	4.6 6.6	--- ---	0
E	5943.9	S?	404343	6329688	2.2 9.1	4.7 38.8	2.3 6.9	--- ---	36
LINE 10230				FLIGHT 52					
A	5544.3	S	403724	6333752	2.2 8.8	5.5 44.4	0.6 7.4	--- ---	47
B	5484.7	S	403905	6332703	2.5 3.0	3.2 14.8	1.6 2.6	--- ---	0
C	5429.0	S	404119	6331590	2.1 3.3	20.9 37.9	12.3 6.9	--- ---	0
D	5412.7	S	404157	6331214	2.7 6.2	13.3 21.4	13.1 3.8	0.4 18	0
E	5394.6	S	404223	6330903	7.4 26.0	38.8 92.5	15.9 19.3	0.4 0	0
F	5382.2	E	404266	6330620	3.1 12.1	24.4 65.6	8.8 12.6	0.3 0	0
G	5337.0	S	404390	6330013	3.5 21.2	12.6 68.3	4.1 12.0	0.2 6	15
H	5328.6	S	404409	6329863	1.2 13.2	5.7 72.9	1.7 12.4	0.1 2	0
LINE 10240				FLIGHT 52					
A	5025.8	S?	404240	6331395	4.2 11.9	8.1 62.6	15.7 10.1	--- ---	0
B	5046.4	S	404309	6330988	1.6 18.8	24.6 92.4	5.4 17.6	--- ---	0
C	5055.3	S	404351	6330799	2.5 23.5	36.7 166.4	1.4 31.3	--- ---	0
D	5063.2	E	404386	6330642	5.4 16.9	0.0 17.9	2.5 2.5	--- ---	0
E	5124.3	S	404513	6329805	0.5 7.0	0.2 39.1	1.1 6.5	--- ---	59
LINE 10250				FLIGHT 52					
A	4533.8	S	403941	6333740	0.7 4.2	1.3 21.4	0.7 3.6	--- ---	0

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Area A

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EM Anomaly List

Label	Fid	Interp	XUTM m	YUTM m	CX 5500 HZ Real Quad ppm ppm	CP 7200 HZ Real Quad ppm ppm	CP 900 HZ Real Quad ppm ppm	Vertical Dike COND DEPTH* siemens m	Mag. Corr NT
LINE 10250				FLIGHT 52					
B	4480.0	S?	404086	6332871	2.1 2.1	9.3 4.8	12.8 1.1	--- ---	294
C	4396.6	S	404308	6331525	5.0 13.2	29.0 86.5	23.5 15.4	0.4 2	0
D	4367.5	S	404421	6331043	3.8 13.1	8.6 28.1	5.9 6.2	0.3 0	0
E	4357.4	S	404446	6330829	5.3 23.8	23.5 135.8	6.4 24.7	0.3 0	12
F	4329.1	S?	404502	6330458	1.4 9.2	7.0 49.5	10.5 8.3	0.1 2	8
G	4296.0	S	404529	6330227	2.2 8.7	17.7 77.3	10.0 15.0	0.2 5	0
H	4203.9	S	404785	6328885	0.9 6.9	6.8 38.6	3.9 5.4	0.1 1	0
LINE 10260				FLIGHT 52					
A	3800.0	S	403904	6334433	1.9 2.6	5.8 19.9	2.9 3.9	--- ---	52
B	3971.9	S?	404419	6331516	3.4 19.4	13.2 79.7	0.5 14.1	--- ---	0
C	3998.3	S	404538	6330905	1.5 9.5	17.6 85.2	2.0 15.9	--- ---	15
D	4003.9	E	404563	6330751	1.2 19.5	13.4 109.1	3.7 19.0	--- ---	4
E	4098.1	E	404864	6329047	2.6 9.2	6.6 22.7	1.2 4.5	0.2 13	0
LINE 10270				FLIGHT 52					
A	3014.2	S	404649	6330862	2.6 14.6	7.5 61.7	3.5 10.9	0.2 0	9
B	2997.4	S	404706	6330549	1.9 11.8	5.2 37.9	2.4 6.9	0.1 0	7
LINE 10271				FLIGHT 52					
A	3469.0	S	404512	6331548	5.4 6.5	4.4 27.8	9.6 5.4	--- ---	0
B	3432.5	S	404638	6330897	2.4 17.9	10.9 69.4	3.0 12.3	--- ---	0
LINE 10280				FLIGHT 52					
A	2490.6	S	404637	6331436	1.9 7.6	12.7 29.9	14.3 5.2	--- ---	0
B	2531.6	S	404789	6330634	0.1 6.9	12.5 55.9	3.2 10.0	--- ---	0
C	2598.8	S	405009	6329369	1.7 6.0	5.7 48.1	2.5 7.2	--- ---	0
LINE 10290				FLIGHT 52					
A	2023.0	S?	404319	6333879	0.6 6.2	2.6 17.3	2.9 2.9	--- ---	0
B	1864.6	S?	404691	6331751	1.9 7.1	2.8 30.8	4.6 4.9	--- ---	0
C	1802.4	S	404798	6331143	1.7 9.7	9.3 44.4	2.9 9.0	0.1 0	2
D	1792.4	E	404828	6330958	2.0 13.3	8.3 47.1	2.4 9.4	0.1 0	0
E	1760.2	S?	404893	6330586	2.8 6.9	13.2 54.9	11.3 10.1	0.3 20	11
F	1670.3	S	405112	6329398	1.7 15.1	10.5 75.1	1.6 12.9	0.1 0	0
LINE 10300				FLIGHT 52					
A	1058.0	S?	404324	6334401	0.8 1.8	0.6 16.4	1.0 2.2	--- ---	0

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- 7 -

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EM Anomaly List

Label	Fid	Interp	XUTM m	YUTM m	CX 5500 HZ Real Quad ppm ppm	CP 7200 HZ Real Quad ppm ppm	CP 900 HZ Real Quad ppm ppm	Vertical Dike COND DEPTH* siemens m	Mag. Corr NT
LINE 10300			FLIGHT 52						
B	1275.8	S	404925	6330960	3.1 13.9	11.3 68.7	3.3 11.6	--- ---	0
C	1299.5	S	404995	6330538	2.9 9.2	10.3 41.6	2.8 7.7	--- ---	0
D	1323.1	S	405080	6330087	0.7 10.6	7.6 53.8	2.5 8.9	--- ---	0
E	1338.0	S	405134	6329801	3.8 12.2	5.9 24.9	2.4 3.5	--- ---	4
LINE 10310			FLIGHT 52						
A	763.7	S	404324	6334987	0.8 3.6	0.7 12.2	0.2 2.1	--- ---	32
B	424.9	S	405061	6330801	0.8 3.0	3.6 35.0	1.1 5.1	0.2 28	5
C	383.9	S	405132	6330419	2.9 7.3	9.2 33.6	2.0 6.0	0.3 6	0
LINE 10320			FLIGHT 50						
A	9293.8	S	405013	6331649	1.3 7.5	2.5 23.9	0.1 3.9	0.1 1	61
B	9250.3	S	405112	6331051	3.5 20.2	10.3 97.4	3.7 16.6	0.2 0	1
C	9224.0	S	405184	6330647	2.6 10.1	8.0 58.0	1.2 9.9	0.2 1	0
D	9104.0	S	405531	6328857	1.3 6.1	0.0 36.5	4.4 5.1	0.2 1	4
LINE 10330			FLIGHT 50						
A	8744.7	S?	404799	6333433	0.0 1.7	8.7 19.0	0.8 4.0	--- ---	0
B	8874.4	S	405166	6331339	3.7 9.2	9.7 69.2	2.5 12.7	0.4 8	0
C	8895.4	S	405210	6331022	1.8 8.1	6.6 55.8	1.9 9.8	0.2 12	0
D	9005.9	S	405478	6329608	4.5 11.4	7.3 52.2	1.8 8.6	0.4 4	0
E	9016.7	S	405502	6329386	3.2 21.9	10.8 58.3	1.7 10.7	0.2 0	0
F	9035.7	S	405598	6328861	2.9 10.9	3.6 57.4	0.6 9.5	0.3 13	0
LINE 10340			FLIGHT 50						
A	8228.5	S?	404727	6334481	2.0 6.3	30.6 43.8	4.1 12.6	--- ---	0
B	8032.8	S	405176	6331899	0.2 8.8	4.6 32.1	1.9 6.0	0.1 22	0
C	7996.2	E	405243	6331532	1.2 8.1	11.4 52.1	2.1 9.2	0.1 0	0
D	7971.5	S	405297	6331206	1.9 9.3	7.7 76.0	0.8 14.3	0.2 12	6
E	7854.9	S?	405620	6329393	1.7 26.1	16.0 108.8	14.2 19.0	0.1 5	54
LINE 10350			FLIGHT 50						
A	7330.3	S	404802	6334513	10.1 25.9	50.9 117.9	3.8 28.9	0.5 4	5
B	7524.7	S	405347	6331440	1.0 6.9	7.3 44.4	2.3 8.5	0.1 0	9
C	7535.7	S	405375	6331299	0.4 3.8	2.6 27.7	2.5 4.5	0.1 9	1
D	7604.6	S	405523	6330432	0.6 4.3	5.1 21.9	2.3 3.6	0.1 0	0
E	7643.5	S	405609	6329984	3.6 15.9	14.6 72.0	2.3 13.2	0.2 0	0
F	7681.9	S	405719	6329360	1.8 9.4	13.4 59.7	2.1 10.7	0.2 2	63

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- 8 -

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EM Anomaly List

					CX 5500 HZ	CP 7200 HZ	CP 900 HZ	Vertical Dike		Mag. Corr			
Label	Fid	Interp	XUTM m	YUTM m	Real ppm	Quad ppm	Real ppm	Quad ppm	Real ppm	Quad ppm	COND siemens	DEPTH* m	NT
LINE 10350			FLIGHT 50										
G	7708.2	S	405812	6328843	2.9	15.6	5.8	62.3	1.2	10.7	0.2	3	0
LINE 10360			FLIGHT 50										
A	6928.9	B?	404909	6334475	8.2	31.9	111.1	351.8	6.5	66.9	0.3	0	5
B	6924.9	S?	404936	6334397	7.0	24.1	111.1	351.8	2.0	66.9	0.4	0	9
C	6918.5	E	404969	6334292	6.5	31.0	4.0	281.6	1.8	19.2	0.3	0	1
D	6759.6	S	405358	6331963	1.4	11.6	7.0	50.3	2.4	8.9	0.1	2	0
E	6745.4	S	405378	6331749	0.6	8.3	4.0	55.2	2.0	9.3	0.1	0	0
F	6722.2	S	405448	6331477	1.4	8.5	5.4	37.1	1.3	6.5	0.1	0	9
G	6646.2	S	405633	6330470	1.2	7.8	4.2	40.8	1.7	7.5	0.1	1	0
H	6625.5	S	405675	6330249	2.9	21.5	10.9	79.4	4.4	13.6	0.1	0	0
LINE 10370			FLIGHT 54										
A	1587.7	S	405027	6334558	3.3	13.5	24.7	83.8	2.7	16.4	---	---	0
B	1623.3	S	405129	6333900	2.5	6.2	7.7	63.0	0.5	10.5	---	---	0
C	1727.7	S	405407	6332385	1.5	5.6	6.4	30.5	2.0	4.5	---	---	0
D	1785.1	S	405496	6331765	1.9	9.1	5.9	20.6	1.4	4.4	---	---	0
E	1802.5	S	405537	6331506	2.0	8.1	5.5	29.4	1.4	5.5	---	---	10
F	1838.2	S	405638	6330952	1.9	9.5	7.4	34.5	1.2	6.1	---	---	1
G	1870.7	S	405732	6330427	2.5	8.7	6.7	38.5	0.1	6.7	---	---	0
H	1885.3	S	405770	6330216	2.2	19.7	8.0	55.4	3.2	9.2	---	---	0
LINE 10380			FLIGHT 50										
A	6024.6	S	404889	6335825	0.5	9.3	6.0	49.7	1.6	8.4	0.1	3	0
B	6086.7	S	405134	6334498	5.0	16.8	30.3	87.5	5.4	18.3	0.3	2	0
C	6116.2	S	405207	6334025	3.0	14.5	15.4	68.9	0.8	12.7	0.2	0	0
D	6270.4	S	405481	6332452	1.8	4.4	6.5	42.6	1.7	7.1	0.3	31	0
E	6352.0	S	405616	6331636	1.0	8.4	4.8	63.1	0.4	10.8	0.1	0	0
F	6381.2	S?	405692	6331277	5.5	23.5	24.0	85.9	1.5	16.1	0.3	0	1
LINE 10390			FLIGHT 50										
A	5930.1	S	404943	6336149	1.0	6.7	3.7	28.2	2.7	4.6	0.1	3	0
B	5822.9	S?	405248	6334325	4.3	12.6	3.5	35.1	2.0	6.2	0.3	7	0
C	5810.6	S	405246	6334156	4.1	24.9	13.6	110.3	3.2	19.5	0.2	0	0
D	5594.6	S	405645	6332087	2.6	17.0	8.2	64.6	1.9	12.0	0.2	0	0
E	5571.6	S?	405677	6331850	2.5	21.9	14.4	118.2	3.2	20.4	0.1	0	0
F	5543.4	S	405750	6331442	4.3	36.6	25.9	193.3	1.9	32.3	0.1	0	1

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Area A

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EM Anomaly List

Label	Fid	Interp	XUTM m	YUTM m	CX 5500 HZ Real Quad ppm ppm	CP 7200 HZ Real Quad ppm ppm	CP 900 HZ Real Quad ppm ppm	Vertical Dike COND DEPTH* siemens m	Mag. Corr NT
LINE 10400			FLIGHT 50						
A	5272.9	S	405320	6334465	2.2 10.7	5.8 47.4	3.8 9.0	0.2 0	0
B	5397.0	S	405564	6333036	0.9 3.7	5.6 21.8	2.5 4.6	--- ---	0
C	5483.5	S	405809	6331758	0.0 9.3	16.6 57.5	4.5 9.5	0.1 14	0
LINE 10410			FLIGHT 50						
A	4895.2	S	405207	6335761	1.3 15.9	0.7 52.3	3.4 8.4	0.1 0	0
B	4820.5	S?	405354	6334912	2.1 8.4	11.0 36.7	5.7 8.1	0.2 17	27
C	4681.2	S?	405659	6333181	4.3 11.0	15.7 32.6	5.1 9.2	0.4 10	0
D	4659.4	S	405740	6332689	2.1 12.6	9.9 65.9	2.0 10.1	0.2 0	0
E	4624.3	S	405825	6332308	1.4 7.5	5.0 57.5	0.9 9.3	0.1 9	0
F	4590.7	S	405875	6331889	2.3 8.7	15.3 49.7	4.6 9.8	0.2 2	0
LINE 10420			FLIGHT 50						
A	4290.7	S?	405480	6334888	3.1 16.0	22.1 40.3	6.3 10.0	0.2 0	0
B	4312.3	S	405562	6334339	1.9 6.8	10.1 26.1	4.6 7.0	0.2 2	0
C	4416.5	B?	405796	6333021	8.4 33.1	35.3 163.5	2.3 25.5	0.3 5	1
LINE 10430			FLIGHT 50						
A	4035.6	E	405502	6335228	1.3 4.4	4.7 47.3	0.7 7.7	0.2 27	0
B	4024.0	S	405524	6335129	1.2 7.4	12.7 55.3	2.2 9.7	0.1 1	0
C	3889.1	S?	405854	6333320	13.3 48.3	86.7 218.4	5.1 43.2	0.4 0	6
D	3790.2	S	406061	6332037	1.6 1.5	13.4 98.6	0.7 16.2	0.7 81	0
LINE 10440			FLIGHT 50						
A	3482.5	S?	405635	6335008	6.2 17.1	9.0 26.8	1.5 4.6	0.4 0	0
B	3533.4	S	405777	6334210	2.6 4.4	11.0 36.5	3.6 7.3	--- ---	0
C	3598.3	B?	405911	6333370	9.8 11.1	26.4 47.4	6.7 15.4	--- ---	0
LINE 10450			FLIGHT 50						
A	3099.4	S	405676	6335442	1.7 2.5	17.2 53.5	2.5 8.7	0.5 62	0
B	3093.0	E	405707	6335328	4.5 18.2	17.2 57.4	3.4 10.3	0.3 0	30
C	2987.2	S	405890	6334198	1.8 12.8	7.5 38.6	3.3 7.1	0.1 0	0
D	2955.4	S	405954	6333795	1.2 4.1	3.1 24.5	1.3 4.0	0.2 27	38
LINE 10460			FLIGHT 50						
A	2484.4	S?	405724	6335683	3.6 12.5	5.1 29.6	4.0 4.8	--- ---	0
B	2587.7	S?	405999	6334112	0.8 4.5	4.5 26.8	4.4 4.3	0.1 6	0

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Area A

EM Anomaly List

Label	Fid	Interp	XUTM m	YUTM m	CX 5500 HZ Real Quad ppm ppm	CP 7200 HZ Real Quad ppm ppm	CP 900 HZ Real Quad ppm ppm	Vertical Dike COND DEPTH* siemens m	Mag. Corr NT
LINE 10460			FLIGHT 50						
C	2617.0	S	406048	6333831	1.4 7.7	3.6 22.8	1.6 3.8	--- ---	0
D	2629.7	S	406065	6333664	1.0 4.2	1.6 15.1	1.6 3.2	0.2 22	18
LINE 10470			FLIGHT 50						
A	2242.0	S	405787	6335937	5.1 18.1	5.6 80.4	0.6 12.1	0.3 3	20
B	2090.5	S?	406042	6334468	4.3 3.1	20.2 13.4	12.7 10.0	--- ---	0
LINE 10480			FLIGHT 50						
A	1630.5	S	405865	6336011	3.1 5.5	3.5 33.1	1.8 5.5	--- ---	0
B	1735.1	B	406157	6334506	28.0 27.8	135.0 85.3	49.3 68.8	1.8 0	4
C	1742.5	D	406162	6334407	40.8 18.4	135.0 85.3	49.3 68.8	5.5 0	0
D	1765.4	S	406258	6333886	1.9 8.6	2.1 43.4	1.6 6.4	0.2 9	0
E	1819.1	S	406421	6332845	1.1 6.8	6.2 45.4	3.2 7.8	0.1 9	0
LINE 10490			FLIGHT 50						
A	1176.7	B	406237	6334520	57.2 48.4	343.2 261.4	71.4 165.8	2.7 0	0
B	1168.3	B	406252	6334474	22.5 30.3	445.1 403.2	67.2 193.7	1.2 0	0
C	1132.8	S	406352	6333874	1.9 11.0	3.9 37.7	2.8 6.4	0.2 0	0
D	1125.3	S	406387	6333681	1.3 7.3	4.9 45.8	1.4 7.3	0.1 4	8
E	1097.5	S?	406512	6332926	1.9 4.1	5.3 23.1	3.2 3.9	--- ---	21
LINE 10500			FLIGHT 50						
A	887.2	D	406327	6334490	41.1 21.7	133.2 73.3	36.6 67.2	4.4 0	0
B	923.1	S	406455	6333824	2.6 13.0	5.0 92.1	0.0 14.9	--- ---	10
C	968.5	S	406704	6332346	0.7 7.1	3.3 39.8	1.3 7.3	--- ---	10
D	987.7	S	406799	6331876	1.1 18.9	5.0 83.8	4.3 14.0	0.1 2	0
LINE 10510			FLIGHT 50						
A	447.7	B	406429	6334653	8.7 9.1	121.2 79.3	28.8 56.1	1.2 28	0
B	434.3	D	406444	6334559	55.4 52.4	211.6 243.0	23.7 91.7	2.4 0	0
C	364.0	S	406552	6333896	1.4 15.1	5.5 70.2	4.6 12.1	0.1 0	0
D	345.6	S	406652	6333345	2.0 14.4	20.8 50.5	19.9 9.1	0.1 2	8
E	305.1	S	406893	6332028	2.4 16.5	6.1 112.7	3.7 19.5	0.1 0	5
LINE 10520			FLIGHT 49						
A	5668.3	S	406673	6333701	1.7 9.9	5.4 71.1	1.9 10.6	--- ---	3
B	5677.5	S	406726	6333393	1.2 9.9	4.4 30.1	14.4 4.7	--- ---	0
C	5703.6	S	406896	6332460	2.9 9.5	7.3 80.0	12.3 13.6	--- ---	0

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Area A

- 11 -

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EM Anomaly List

Label	Fid	Interp	XUTM m	YUTM m	CX Real ppm	5500 HZ Quad ppm	CP Real ppm	7200 HZ Quad ppm	CP Real ppm	900 HZ Quad ppm	Vertical COND siemens	Dike DEPTH* m	Mag. Corr NT		
LINE 10530			FLIGHT 49												
A	5128.2	S	406968	6332645	1.0	8.2	6.0	29.5	2.8	5.0	0.1	0	1		
LINE 10540			FLIGHT 49												
A	4944.4	E	406761	6334361	1.4	12.2	9.5	34.3	2.8	7.4	---	---	0		
B	4960.0	S?	406803	6334212	6.4	6.6	22.4	17.6	3.7	7.3	---	---	0		
LINE 10541			FLIGHT 54												
A	597.9	B?	406834	6333968	10.7	26.8	66.9	197.1	1.8	40.3	0.5	0	0		
B	594.8	B?	406857	6333864	7.5	13.1	66.9	197.1	4.9	40.3	0.6	10	0		
C	580.9	S	406955	6333374	5.7	13.6	60.1	92.1	3.4	21.7	0.4	13	0		
D	573.1	S	406996	6333093	2.2	20.4	11.2	99.7	0.0	18.6	---	---	8		
LINE 10550			FLIGHT 49												
A	4351.9	S?	406882	6334322	7.9	25.7	59.0	123.0	3.2	31.5	0.4	0	0		
B	4325.9	S	406997	6333681	11.4	41.9	70.0	153.5	10.5	42.2	0.4	0	0		
C	4307.9	S	407081	6333109	8.0	27.9	29.4	122.9	3.4	21.9	0.4	0	0		
LINE 10560			FLIGHT 49												
A	4120.0	S?	407001	6334263	6.0	7.2	19.3	27.1	5.9	9.0	---	---	0		
B	4141.0	S	407063	6333847	5.7	24.2	36.7	89.5	3.3	15.3	0.3	0	0		
C	4163.9	S	407184	6333103	4.3	29.4	19.6	79.9	1.9	13.2	0.2	0	4		
LINE 10570			FLIGHT 49												
A	3594.8	S?	407070	6334373	5.6	12.0	26.5	55.0	5.7	13.8	0.5	2	0		
B	3570.1	S?	407153	6333961	1.7	17.0	18.0	77.3	6.4	15.2	0.1	0	0		
C	3554.4	S?	407183	6333745	0.7	9.3	9.2	34.3	4.0	6.0	0.1	1	26		
D	3512.9	S	407384	6332653	3.1	14.7	10.6	67.1	3.2	11.2	0.2	2	22		
LINE 10580			FLIGHT 49												
A	3318.0	S	407206	6334295	1.3	2.6	16.9	20.4	3.4	5.1	---	---	0		
B	3349.2	S	407270	6333762	0.8	8.3	9.0	44.3	3.7	8.8	0.1	0	0		
C	3390.7	S?	407455	6332740	2.2	19.1	8.7	61.8	5.8	10.9	0.1	0	27		
LINE 10590			FLIGHT 49												
A	2879.1	S	407326	6334170	1.9	14.1	13.4	35.9	2.5	7.1	0.1	0	4		
B	2839.8	S	407410	6333715	1.0	9.5	14.0	64.5	3.2	11.6	0.1	0	3		
C	2746.3	S	407715	6331934	2.1	10.0	13.0	30.3	2.2	7.5	0.2	0	0		

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EM Anomaly List

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LINE 10600			FLIGHT 49						
A	2427.0	S	407252	6335125	1.4 6.9	16.1 31.9	1.6 8.1	--- ---	0
B	2502.7	S	407413	6334163	3.8 14.5	10.3 52.2	1.7 8.7	0.3 0	7
C	2548.7	S	407502	6333687	1.1 10.4	4.6 36.6	2.2 6.3	0.1 0	0
LINE 10610			FLIGHT 49						
A	1965.3	S	407518	6334261	1.0 8.8	8.7 33.8	3.9 5.9	0.1 0	4
B	1816.8	S	407794	6332529	0.8 6.8	3.4 26.6	1.9 4.2	0.1 0	0
C	1775.5	S	407933	6331788	3.1 15.0	15.3 59.8	2.8 11.3	0.2 0	2
LINE 10620			FLIGHT 49						
A	1530.1	S	407586	6334243	1.9 7.5	4.8 31.9	2.8 5.1	--- ---	5
B	1677.4	S	407925	6332408	0.7 6.6	3.4 28.4	0.2 5.2	0.1 0	0
C	1699.9	S	408018	6331850	1.5 13.6	13.5 75.6	2.0 14.1	0.1 0	2
LINE 10630			FLIGHT 49						
A	987.0	S	407615	6334717	3.1 10.4	5.7 35.4	3.2 6.4	--- ---	0
B	898.5	S	407823	6333666	0.5 9.3	2.3 45.0	1.3 7.2	--- ---	1
C	821.9	S?	407958	6332817	0.4 15.3	6.8 63.5	6.4 10.3	--- ---	5
D	750.1	S?	408105	6331945	1.4 28.7	10.5 106.9	3.7 18.2	0.1 0	0
E	740.3	S	408127	6331833	1.8 7.2	13.8 83.3	1.6 14.8	0.2 11	0
LINE 19010			FLIGHT 54						
A	5003.0	S	404879	6335781	3.9 21.8	10.5 57.2	4.9 10.8	0.2 0	0
B	5017.6	S	405072	6335811	1.5 7.2	4.8 50.1	1.3 8.7	0.2 13	35
C	5073.1	S	405771	6335944	5.7 19.7	8.0 58.2	2.8 9.5	0.3 0	0
LINE 19020			FLIGHT 54						
A	4767.7	S	401542	6334170	12.3 44.7	40.5 164.4	14.7 28.2	0.4 0	0
B	4663.7	S	403391	6334510	1.4 6.8	5.2 25.1	3.4 4.0	0.2 5	0
C	4532.0	S	405462	6334865	0.8 9.8	27.7 47.8	4.5 12.9	--- ---	0
D	4341.9	S	407195	6335187	8.4 24.3	15.8 78.6	2.5 14.4	0.4 1	0
LINE 19030			FLIGHT 54						
A	4073.0	S?	406885	6334103	33.9 75.3	109.5 250.4	7.0 60.6	0.9 0	0
B	4095.6	S	407438	6334206	0.4 6.5	19.6 58.7	2.4 11.2	0.1 10	2

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Label	Fid	Interp	XUTM m	YUTM m	CX 5500 HZ Real Quad ppm ppm	CP 7200 HZ Real Quad ppm ppm	CP 900 HZ Real Quad ppm ppm	Vertical Dike COND DEPTH* siemens m	Mag. Corr NT
LINE	19040		FLIGHT	54					
A	3560.9	S?	402069	6332276	1.1 9.4	1.9 51.4	2.7 8.2	--- ---	0
B	3507.4	S?	402466	6332328	0.0 6.5	22.3 23.7	28.2 3.4	--- ---	107
C	3471.1	S?	403061	6332399	4.9 16.2	27.5 72.2	15.1 12.8	--- ---	0
D	3416.9	S	403616	6332522	2.3 7.4	9.4 30.0	3.5 5.6	--- ---	32
E	3278.5	S	405820	6332919	3.2 10.0	12.1 45.8	3.0 8.1	0.3 9	0
F	3246.2	S?	406134	6332985	0.7 3.0	5.8 21.9	4.3 3.6	--- ---	21
G	3174.3	S	407002	6333095	7.0 50.4	28.6 227.6	6.6 42.1	0.2 0	9
H	3165.0	E	407149	6333124	5.3 22.2	25.2 78.5	2.3 16.4	--- ---	2
LINE	19050		FLIGHT	54					
A	2435.8	S?	402193	6331227	0.0 17.4	23.9 35.3	22.3 6.3	--- ---	0
B	2458.8	S?	402593	6331346	9.0 43.1	58.5 285.6	20.3 51.3	0.3 0	0
C	2480.6	S?	402907	6331396	5.2 42.3	25.2 192.9	3.1 30.1	0.2 0	89
D	2502.4	S?	403299	6331443	9.6 48.5	41.3 193.4	7.6 35.9	0.3 0	0
E	2508.5	S	403436	6331446	7.7 41.6	41.3 138.3	7.6 24.4	0.3 0	0
F	2547.4	S?	404215	6331591	0.0 15.8	12.8 44.1	22.8 7.4	--- ---	0
G	2552.9	S?	404345	6331618	7.1 29.2	25.8 124.8	22.8 21.6	0.3 0	0
H	2653.4	S	405752	6331879	3.4 16.3	4.7 28.1	0.4 5.5	--- ---	4
I	2749.5	S	406751	6332063	2.2 13.7	3.4 74.9	4.1 12.4	--- ---	0
J	2762.6	S	406963	6332076	3.3 33.4	10.8 129.7	3.0 20.8	0.1 0	3
K	2819.1	S	407597	6332201	3.5 8.9	3.4 17.6	1.0 3.3	0.4 9	4
LINE	19060		FLIGHT	54					
A	5816.0	S?	402097	6330228	0.0 10.7	2.1 33.3	161.0 6.5	--- ---	369
B	5797.5	S	402443	6330276	1.4 9.9	31.6 53.7	37.9 11.2	0.1 2	1
C	5788.0	S?	402680	6330305	0.0 69.6	22.4 236.2	37.8 41.8	0.1 37	0
D	5782.1	S?	402849	6330350	5.3 45.6	27.5 266.0	6.9 46.7	0.2 0	11
E	5764.3	S	403306	6330422	7.7 36.1	17.6 94.2	2.6 15.2	0.3 0	52
F	5752.7	S	403514	6330463	2.7 32.1	32.4 130.5	17.6 23.1	0.1 0	0
G	5697.6	S	404243	6330612	4.7 20.1	21.7 80.2	4.6 15.4	0.3 0	43
H	5688.0	S	404411	6330620	2.3 12.0	19.9 46.9	14.5 8.8	0.2 6	0
I	5657.4	S	404771	6330694	3.4 17.2	10.1 61.6	5.1 10.5	0.2 0	0
J	5646.7	B?	404850	6330714	1.2 28.8	16.9 130.1	3.9 22.8	0.1 0	36
K	5631.2	S	405113	6330756	5.7 27.4	21.1 134.5	1.2 23.1	0.3 0	0
L	5587.6	S	405660	6330843	5.9 28.3	11.5 103.5	2.7 16.4	0.3 0	0

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Label	Fid	Interp	XUTM m	YUTM m	CX 5500 HZ Real Quad ppm ppm	CP 7200 HZ Real Quad ppm ppm	CP 900 HZ Real Quad ppm ppm	Vertical Dike COND DEPTH* siemens m	Mag. Corr NT
LINE 19070			FLIGHT 54						
A	5923.0	S	402272	6329230	8.1 10.5	22.9 49.1	15.2 9.3	--- ---	0
B	5933.2	S	402547	6329271	7.2 17.8	26.2 69.8	29.3 11.6	0.5 7	0
C	5962.3	S	403236	6329396	2.4 12.9	4.7 46.0	1.3 7.4	0.2 0	0
D	5994.4	S	403615	6329478	5.4 20.6	10.5 80.3	3.7 13.4	0.3 0	40
E	6016.9	S	404151	6329549	4.2 14.8	25.9 77.7	1.1 15.5	0.3 0	0
F	6033.3	S	404396	6329600	1.6 10.0	4.1 42.7	0.9 7.4	0.1 0	33
G	6091.0	S	405149	6329737	2.5 10.7	3.4 32.5	2.2 5.2	0.2 0	0
H	6121.9	S	405612	6329818	5.1 13.6	21.0 94.0	4.2 16.8	0.4 3	0
LINE 19080			FLIGHT 54						
A	6364.3	S	404976	6328700	1.6 11.0	12.1 36.7	2.1 7.6	0.1 3	0
B	6309.1	S	405525	6328784	3.1 17.1	9.4 51.5	1.9 9.4	0.2 0	2

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- 15 -

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APPENDIX F

GLOSSARY

APPENDIX F

GLOSSARY OF AIRBORNE GEOPHYSICAL TERMS

Note: The definitions given in this glossary refer to the common terminology as used in airborne geophysics.

altitude attenuation: the absorption of gamma rays by the atmosphere between the earth and the detector. The number of gamma rays detected by a system decreases as the altitude increases.

apparent- : the *physical parameters* of the earth measured by a geophysical system are normally expressed as apparent, as in “apparent *resistivity*”. This means that the measurement is limited by assumptions made about the geology in calculating the response measured by the geophysical system. Apparent resistivity calculated with *HEM*, for example, generally assumes that the earth is a *homogeneous half-space* – not layered.

amplitude: The strength of the total electromagnetic field. In *frequency domain* it is most often the sum of the squares of *in-phase* and *quadrature* components. In multi-component electromagnetic surveys it is generally the sum of the squares of all three directional components.

analytic signal: The total amplitude of all the directions of magnetic *gradient*. Calculated as the sum of the squares.

anisotropy: Having different *physical parameters* in different directions. This can be caused by layering or fabric in the geology. Note that a unit can be anisotropic, but still *homogeneous*.

anomaly: A localized change in the geophysical data characteristic of a discrete source, such as a conductive or magnetic body. Something locally different from the *background*.

B-field: In time-domain *electromagnetic* surveys, the magnetic field component of the (electromagnetic) *field*. This can be measured directly, although more commonly it is calculated by integrating the time rate of change of the magnetic field *dB/dt*, as measured with a receiver coil.

background: The “normal” response in the geophysical data – that response observed over most of the survey area. *Anomalies* are usually measured relative to the background. In airborne gamma-ray spectrometric surveys the term defines the *cosmic*, radon, and aircraft responses in the absence of a signal from the ground.

base-level: The measured values in a geophysical system in the absence of any outside signal. All geophysical data are measured relative to the system base level.

- Appendix F.2 -

base frequency: The frequency of the pulse repetition for a *time-domain electromagnetic* system. Measured between subsequent positive pulses.

bird: A common name for the pod towed beneath or behind an aircraft, carrying the geophysical sensor array.

calibration coil: A wire coil of known size and dipole moment, which is used to generate a field of known *amplitude* and *phase* in the receiver, for system calibration. Calibration coils can be external, or internal to the system. Internal coils may be called Q-coils.

coaxial coils: [CX] Coaxial coils are in the vertical plane, with their axes horizontal and collinear in the flight direction. These are most sensitive to vertical conductive objects in the ground, such as thin, steeply dipping conductors perpendicular to the flight direction. Coaxial coils generally give the sharpest anomalies over localized conductors. (See also *coplanar coils*)

coil: A multi-turn wire loop used to transmit or detect electromagnetic fields. Time varying *electromagnetic* fields through a coil induce a voltage proportional to the strength of the field and the rate of change over time.

compensation: Correction of airborne geophysical data for the changing effect of the aircraft. This process is generally used to correct data in *fixed-wing time-domain electromagnetic* surveys (where the transmitter is on the aircraft and the receiver is moving), and magnetic surveys (where the sensor is on the aircraft, turning in the earth's magnetic field).

component: In *frequency domain electromagnetic* surveys this is one of the two *phase* measurements – *in-phase or quadrature*. In “multi-component” electromagnetic surveys it is also used to define the measurement in one geometric direction (vertical, horizontal in-line and horizontal transverse – the Z, X and Y components).

Compton scattering: gamma ray photons will bounce off the nuclei of atoms they pass through (earth and atmosphere), reducing their energy and then being detected by *radiometric* sensors at lower energy levels. See also *stripping*.

conductance: See *conductivity thickness*

conductivity: [s] The facility with which the earth or a geological formation conducts electricity. Conductivity is usually measured in milli-Siemens per metre (mS/m). It is the reciprocal of *resistivity*.

conductivity-depth imaging: see *conductivity-depth transform*.

- Appendix F.3 -

conductivity-depth transform: A process for converting electromagnetic measurements to an approximation of the conductivity distribution vertically in the earth, assuming a *layered earth*. (Macnae and Lamontagne, 1987; Wolfgram and Karlik, 1995)

conductivity thickness: [s t] The product of the *conductivity*, and thickness of a large, tabular body. (It is also called the “conductivity-thickness product”) In electromagnetic geophysics, the response of a thin plate-like conductor is proportional to the conductivity multiplied by thickness. For example a 10 metre thickness of 20 Siemens/m mineralization will be equivalent to 5 metres of 40 S/m; both have 200 S conductivity thickness. Sometimes referred to as conductance.

conductor: Used to describe anything in the ground more conductive than the surrounding geology. Conductors are most often clays or graphite, or hopefully some type of mineralization, but may also be man-made objects, such as fences or pipelines.

coplanar coils: [CP] The coplanar coils lie in the horizontal plane with their axes vertical, and parallel. These coils are most sensitive to massive conductive bodies, horizontal layers, and the *halfspace*.

cosmic ray: High energy sub-atomic particles from outer space that collide with the earth's atmosphere to produce a shower of gamma rays (and other particles) at high energies.

counts (per second): The number of *gamma-rays* detected by a gamma-ray *spectrometer*. The rate depends on the geology, but also on the size and sensitivity of the detector.

culture: A term commonly used to denote any man-made object that creates a geophysical anomaly. Includes, but not limited to, power lines, pipelines, fences, and buildings.

current gathering: The tendency of electrical currents in the ground to channel into a conductive formation. This is particularly noticeable at higher frequencies or early time channels when the formation is long and parallel to the direction of current flow. This tends to enhance anomalies relative to inductive currents (see also *induction*). Also known as current channelling.

current channelling: See current gathering.

daughter products: The radioactive natural sources of gamma-rays decay from the original element (commonly potassium, uranium, and thorium) to one or more lower-energy elements. Some of these lower energy elements are also radioactive and decay further. *Gamma-ray spectrometry* surveys may measure the gamma rays given off by the original element or by the decay of the daughter products.

- Appendix F.4 -

$\frac{dB}{dt}$: As the **secondary electromagnetic field** changes with time, the magnetic field [B] component induces a voltage in the receiving **coil**, which is proportional to the rate of change of the magnetic field over time.

decay: In **time-domain electromagnetic** theory, the weakening over time of the **eddy currents** in the ground, and hence the **secondary field** after the **primary field** electromagnetic pulse is turned off. In **gamma-ray spectrometry**, the radioactive breakdown of an element, generally potassium, uranium, thorium, or one of their **daughter** products.

decay series: In **gamma-ray spectrometry**, a series of progressively lower energy **daughter products** produced by the radioactive breakdown of uranium or thorium.

decay constant: see time constant.

depth of exploration: The maximum depth at which the geophysical system can detect the target. The depth of exploration depends very strongly on the type and size of the target, the contrast of the target with the surrounding geology, the homogeneity of the surrounding geology, and the type of geophysical system. One measure of the maximum depth of exploration for an electromagnetic system is the depth at which it can detect the strongest conductive target – generally a highly conductive horizontal layer.

differential resistivity: A process of transforming **apparent resistivity** to an approximation of layer resistivity at each depth. The method uses multi-frequency HEM data and approximates the effect of shallow layer **conductance** determined from higher frequencies to estimate the deeper conductivities (Huang and Fraser, 1996)

dipole moment: [NIA] For a transmitter, the product of the area of a **coil**, the number of turns of wire, and the current flowing in the coil. At a distance significantly larger than the size of the coil, the magnetic field from a coil will be the same if the dipole moment product is the same. For a receiver coil, this is the product of the area and the number of turns. The sensitivity to a magnetic field (assuming the source is far away) will be the same if the dipole moment is the same.

diurnal: The daily variation in a natural field, normally used to describe the natural fluctuations (over hours and days) of the earth's magnetic field.

dielectric permittivity: [ϵ] The capacity of a material to store electrical charge, this is most often measured as the relative permittivity [ϵ_r], or ratio of the material dielectric to that of free space. The effect of high permittivity may be seen in HEM data at high frequencies over highly resistive geology as a reduced or negative **in-phase**, and higher **quadrature** data.

drift: Long-time variations in the base-level or calibration of an instrument.

- Appendix F.5 -

eddy currents: The electrical currents induced in the ground, or other conductors, by a time-varying **electromagnetic field** (usually the **primary field**). Eddy currents are also induced in the aircraft's metal frame and skin; a source of **noise** in EM surveys.

electromagnetic: [EM] Comprised of a time-varying electrical and magnetic field. Radio waves are common electromagnetic fields. In geophysics, an electromagnetic system is one which transmits a time-varying **primary field** to induce **eddy currents** in the ground, and then measures the **secondary field** emitted by those eddy currents.

energy window: A broad spectrum of **gamma-ray** energies measured by a spectrometric survey. The energy of each gamma-ray is measured and divided up into numerous discrete energy levels, called windows.

equivalent (thorium or uranium): The amount of radioelement calculated to be present, based on the gamma-rays measured from a **daughter** element. This assumes that the **decay series** is in equilibrium – progressing normally.

fiducial, or fid: Timing mark on a survey record. Originally these were timing marks on a profile or film; now the term is generally used to describe 1-second interval timing records in digital data, and on maps or profiles.

fixed-wing: Aircraft with wings, as opposed to “rotary wing” helicopters.

footprint: This is a measure of the area of sensitivity under the aircraft of an airborne geophysical system. The footprint of an **electromagnetic** system is dependent on the altitude of the system, the orientation of the transmitter and receiver and the separation between the receiver and transmitter, and the conductivity of the ground. The footprint of a **gamma-ray spectrometer** depends mostly on the altitude. For all geophysical systems, the footprint also depends on the strength of the contrasting **anomaly**.

frequency domain: An **electromagnetic** system which transmits a **primary field** that oscillates smoothly over time (sinusoidal), inducing a similarly varying electrical current in the ground. These systems generally measure the changes in the **amplitude** and **phase** of the **secondary field** from the ground at different frequencies by measuring the **in-phase** and **quadrature** phase components. See also **time-domain**.

full-stream data: Data collected and recorded continuously at the highest possible sampling rate. Normal data are stacked (see **stacking**) over some time interval before recording.

gamma-ray: A very high-energy photon, emitted from the nucleus of an atom as it undergoes a change in energy levels.

- Appendix F.6 -

gamma-ray spectrometry: Measurement of the number and energy of natural (and sometimes man-made) gamma-rays across a range of photon energies.

gradient: In magnetic surveys, the gradient is the change of the magnetic field over a distance, either vertically or horizontally in either of two directions. Gradient data is often measured, or calculated from the total magnetic field data because it changes more quickly over distance than the **total magnetic field**, and so may provide a more precise measure of the location of a source. See also **analytic signal**.

ground effect: The response from the earth. A common calibration procedure in many geophysical surveys is to fly to altitude high enough to be beyond any measurable response from the ground, and there establish **base levels** or **backgrounds**.

half-space: A mathematical model used to describe the earth – as infinite in width, length, and depth below the surface. The most common halfspace models are **homogeneous** and **layered earth**.

heading error: A slight change in the magnetic field measured when flying in opposite directions.

HEM: Helicopter ElectroMagnetic, This designation is most commonly used to helicopter-borne, **frequency-domain** electromagnetic systems. At present, the transmitter and receivers are normally mounted in a **bird** carried on a sling line beneath the helicopter.

herringbone pattern: a pattern created in geophysical data by an asymmetric system, where the **anomaly** may be extended to either side of the source, in the direction of flight. Appears like fish bones, or like the teeth of a comb, extending either side of centre, each tooth an alternate flight line.

homogeneous: This is a geological unit that has the same **physical parameters** throughout its volume. This unit will create the same response to an HEM system anywhere, and the HEM system will measure the same apparent **resistivity** anywhere. The response may change with system direction (see **anisotropy**).

in-phase: the component of the measured **secondary field** that has the same phase as the transmitter and the **primary field**. The in-phase component is stronger than the **quadrature** phase over relatively higher **conductivity**.

induction: Any time-varying electromagnetic field will induce (cause) electrical currents to flow in any object with non-zero **conductivity**. (see **eddy currents**)

infinite: In geophysical terms, an “infinite” dimension is one much greater than the **footprint** of the system, so that the system does not detect changes at the edges of the object.

- Appendix F.7 -

International Geomagnetic Reference Field: [IGRF] An approximation of the smooth magnetic field of the earth, in the absence of variations due to local geology. Once the IGRF is subtracted from the measured magnetic total field data, any remaining variations are assumed to be due to local geology. The IGRF also predicts the slow changes of the field up to five years in the future.

inversion, or inverse modeling: A process of converting geophysical data to an earth model, which compares theoretical models of the response of the earth to the data measured, and refines the model until the response closely fits the measured data (Huang and Palacky, 1991)

layered earth: A common geophysical model which assumes that the earth is horizontally layered – the **physical parameters** are constant to **infinite** distance horizontally, but change vertically.

magnetic permeability: [m] This is defined as the ratio of magnetic induction to the inducing magnetic field. The relative magnetic permeability [μ_r] is often quoted, which is the ratio of the rock permeability to the permeability of free space. In geology and geophysics, the **magnetic susceptibility** is more commonly used to describe rocks.

magnetic susceptibility: [k] A measure of the degree to which a body is magnetized. In SI units this is related to relative **magnetic permeability** by $k = \mu_r - 1$, and is a dimensionless unit. For most geological material, susceptibility is influenced primarily by the percentage of magnetite. It is most often quoted in units of 10^{-6} . In HEM data this is most often apparent as a negative **in-phase** component over high susceptibility, high **resistivity** geology such as diabase dikes.

noise: That part of a geophysical measurement that the user does not want. Typically this includes electronic interference from the system, the atmosphere (**sferics**), and man-made sources. This can be a subjective judgment, as it may include the response from geology other than the target of interest. Commonly the term is used to refer to high frequency (short period) interference. See also **drift**.

Occam's inversion: an **inversion** process that matches the measured **electromagnetic** data to a theoretical model of many, thin layers with constant thickness and varying resistivity (Constable et al, 1987).

off-time: In a **time-domain electromagnetic** survey, the time after the end of the **primary field pulse**, and before the start of the next pulse.

on-time: In a **time-domain electromagnetic** survey, the time during the **primary field pulse**.

- Appendix F.8 -

phase: The angular difference in time between a measured sinusoidal electromagnetic field and a reference – normally the primary field. The phase is calculated from $\tan^{-1}(\text{in-phase} / \text{quadrature})$.

physical parameters: These are the characteristics of a geological unit. For electromagnetic surveys, the important parameters for electromagnetic surveys are **conductivity**, **magnetic permeability** (or **susceptibility**) and **dielectric permittivity**; for magnetic surveys the parameter is magnetic susceptibility, and for gamma ray spectrometric surveys it is the concentration of the major radioactive elements: potassium, uranium, and thorium.

permittivity: see **dielectric permittivity**.

permeability: see **magnetic permeability**.

primary field: the EM field emitted by a transmitter. This field induces **eddy currents** in (energizes) the conductors in the ground, which then create their own **secondary fields**.

pulse: In time-domain EM surveys, the short period of intense **primary** field transmission. Most measurements (the **off-time**) are measured after the pulse.

quadrature: that component of the measured **secondary field** that is phase-shifted 90° from the **primary field**. The quadrature component tends to be stronger than the **in-phase** over relatively weaker **conductivity**.

Q-coils: see **calibration coil**.

radiometric: Commonly used to refer to **gamma ray** spectrometry.

radon: A radioactive daughter product of uranium and thorium, radon is a gas which can leak into the atmosphere, adding to the non-geological background of a gamma-ray spectrometric survey.

resistivity: [ρ] The strength with which the earth or a geological formation resists the flow of electricity, typically the flow induced by the **primary field** of the electromagnetic transmitter. Normally expressed in ohm-metres, it is the reciprocal of **conductivity**.

resistivity-depth transforms: similar to **conductivity depth transforms**, but the calculated **conductivity** has been converted to **resistivity**.

resistivity section: an approximate vertical section of the resistivity of the layers in the earth. The resistivities can be derived from the **apparent resistivity**, the **differential resistivities**, **resistivity-depth transforms**, or **inversions**.

- Appendix F.9 -

secondary field: The field created by conductors in the ground, as a result of electrical currents induced by the **primary field** from the **electromagnetic** transmitter. Airborne **electromagnetic** systems are designed to create, and measure a secondary field.

Sengpiel section: a **resistivity section** derived using the **apparent resistivity** and an approximation of the depth of maximum sensitivity for each frequency.

sferic: Lightning, or the **electromagnetic** signal from lightning, it is an abbreviation of “atmospheric discharge”. These appear to magnetic and electromagnetic sensors as sharp “spikes” in the data. Under some conditions lightning storms can be detected from hundreds of kilometres away. (see **noise**)

signal: That component of a measurement that the user wants to see – the response from the targets, from the earth, etc. (See also **noise**)

skin depth: A measure of the depth of penetration of an electromagnetic field into a material. It is defined as the depth at which the primary field decreases to 1/e of the field at the surface. It is calculated by approximately $503 \times \sqrt{(\text{resistivity}/\text{frequency})}$. Note that depth of penetration is greater at higher **resistivity** and/or lower **frequency**.

spectrometry: Measurement across a range of energies, where **amplitude** and energy are defined for each measurement. In gamma-ray spectrometry, the number of gamma rays are measured for each energy **window**, to define the **spectrum**.

spectrum: In **gamma ray spectrometry**, the continuous range of energy over which gamma rays are measured. In **time-domain electromagnetic** surveys, the spectrum is the energy of the **pulse** distributed across an equivalent, continuous range of frequencies.

spheric: see **sferic**.

stacking: Summing repeat measurements over time to enhance the repeating **signal**, and minimize the random **noise**.

stripping: Estimation and correction for the gamma ray photons of higher and lower energy that are observed in a particular **energy window**. See also **Compton scattering**.

susceptibility: See **magnetic susceptibility**.

tau: [t] Often used as a name for the **time constant**.

TDEM: **time domain electromagnetic**.

thin sheet: A standard model for electromagnetic geophysical theory. It is usually defined as thin, flat-lying, and **infinite** in both horizontal directions. (see also **vertical plate**)

- Appendix F.10 -

tie-line: A survey line flown across most of the **traverse lines**, generally perpendicular to them, to assist in measuring **drift** and **diurnal** variation. In the short time required to fly a tie-line it is assumed that the drift and/or diurnal will be minimal, or at least changing at a constant rate.

time constant: The time required for an **electromagnetic** field to decay to a value of $1/e$ of the original value. In **time-domain** electromagnetic data, the time constant is proportional to the size and **conductance** of a tabular conductive body. Also called the decay constant.

Time channel: In **time-domain electromagnetic** surveys the decaying **secondary field** is measured over a period of time, and the divided up into a series of consecutive discrete measurements over that time.

time-domain: **Electromagnetic** system which transmits a pulsed, or stepped **electromagnetic** field. These systems induce an electrical current (**eddy current**) in the ground that persists after the **primary field** is turned off, and measure the change over time of the **secondary field** created as the currents **decay**. See also **frequency-domain**.

total energy envelope: The sum of the squares of the three **components** of the **time-domain electromagnetic secondary field**. Equivalent to the **amplitude** of the secondary field.

transient: Time-varying. Usually used to describe a very short period pulse of **electromagnetic** field.

traverse line: A normal geophysical survey line. Normally parallel traverse lines are flown across the property in spacing of 50 m to 500 m, and generally perpendicular to the target geology.

vertical plate: A standard model for electromagnetic geophysical theory. It is usually defined as thin, and **infinite** in horizontal dimension and depth extent. (see also **thin sheet**)

waveform: The shape of the **electromagnetic pulse** from a **time-domain** electromagnetic transmitter.

window: A discrete portion of a **gamma-ray spectrum** or **time-domain electromagnetic decay**. The continuous energy spectrum or **full-stream** data are grouped into windows to reduce the number of samples, and reduce **noise**.

Version 1.1, March 10, 2003

Greg Hodges,
Chief Geophysicist

- Appendix F.11 -

Fugro Airborne Surveys, Toronto

Common Symbols and Acronyms

k	Magnetic susceptibility
e	Dielectric permittivity
m, m_r	Magnetic permeability, apparent permeability
r, r_a	Resistivity, apparent resistivity
s, s_a	Conductivity, apparent conductivity
st	Conductivity thickness
t	Tau, or time constant
W.m	Ohm-metres, units of resistivity
AGS	Airborne gamma ray spectrometry.
CDT	Conductivity-depth transform, conductivity-depth imaging (Macnae and Lamontagne, 1987; Wolfgram and Karlik, 1995)
CPI, CPQ	Coplanar in-phase, quadrature
CPS	Counts per second
CTP	Conductivity thickness product
CXI, CXQ	Coaxial, in-phase, quadrature
fT	femtoteslas, normal unit for measurement of B-Field
EM	Electromagnetic
keV	kilo electron volts – a measure of gamma-ray energy
MeV	mega electron volts – a measure of gamma-ray energy 1MeV = 1000keV
NIA	dipole moment: turns x current x Area
nT	nano-Tesla, a measure of the strength of a magnetic field
ppm	parts per million – a measure of secondary field or noise relative to the primary.
pT/s	picoTeslas per second: Units of decay of secondary field, dB/dt
S	Siemens – a unit of conductance
x:	the horizontal component of an EM field parallel to the direction of flight.
y:	the horizontal component of an EM field perpendicular to the direction of flight.
z:	the vertical component of an EM field.

- Appendix F.13 -

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Appendix G: Airborne Geophysical
Interpretation (J. Klein)

**EQUITY ENGINEERING LIMITED and
BCGOLD CORPORATION
DIGHEM SURVEY OVER THE VOIGTBERG PROJECT,
GALORE CREEK AREA, BC, NTS 104G-2
EXECUTED AUGUST 11-13, 2007 (FUGRO PROJECT #07037)**

A REVIEW

A standard DigheM V (five-frequency) survey was executed over the Voigtberg property, BC, during August 2007. The survey resulted in 404 line kilometers of data along lines 100m apart.

The results of this survey, considering the rugged terrain, appear of relatively good quality. Bird height was at a mean of 40.0m with a SD=8.3m and a maximum of 136.6m.¹ This means that meaningful EM responses were obtained from most parts of the survey block. Locally is noisy data visible caused by rugged terrain resulting in the EM-bird turning and twisting due to slow ascend of the helicopter.

This is not a full reinterpretation of the data rather it is a review of the Fugro results (=profiles, grids and interpretive comments.) as presented to Equity/BCGold as part of its contract with Fugro.

EXTRA MAPS etc.:

The grids supplied by Fugro were replotted on a single 1:20,000 sheet without topography etc. to permit focusing on details. The following products are used in this review (and attached) in addition to the Fugro plots:

MAGNETIC UPWARD CONTINUED: two images of upward continuation by 100 and 250m show smoothing of the data, this process removes the effects of small near surface sources and emphasizes larger, deeper ones.

MAGNETIC LINEAR IMAGE: this map emphasizes the relative narrow range of magnetic values in the eastern and southern parts of the grid area.

MAGNETIC TILT: this is a derivative product like the vertical gradient; it is the ratio of the vertical gradient over that of the total horizontal gradient. Negative values are ignored but the positive axis correlate with the axis of magnetic sources. Only positive values are contoured. Most of the anomalies located along a single flight line have to be ignored they are artifacts of collecting data at different altitudes on adjacent lines.

EM PROFILES: four sheets showing the In-Phase (IP) and Out-of-Phase (OP) profiles of the two co-axial coil (1000 and 5500Hz) outputs. The profiles are offset by their (rather small) mean values; higher values are enhanced by fill-in colors. This permits a quick look at the responses and to determine if conductors are single line events

¹ This is based on the statistics of the gridded data, the individual profiles show very similar statistics indicating that gridding at 20m cells (=1/5th of the line spacing) is valid for this data set.

or continue on adjacent lines.² A fifth map shows the 1000Hz In-Phase profiles with the lower or negative values emphasized. These negative responses are caused by magnetic susceptibility effects and distort the calculation of conductivities.

7200Hz RESISTIVITY IMAGE DISPLAYED EMPLOYING A LINEAR SCALE: this image shows the resistivity data in a linear fashion, it shows clearly that conductive material is present over a large area.

900Hz RESISTIVITY MAP: this map displays the data from the 900 Hz coil set.

RADAR ALTIMETER: this plot shows the gridded radar altimeter output in 5m intervals. Most parts of the grid show smooth variations indicating that bird swing and related distortions of the EM responses were low. However locally, due to steep terrain, are sections of lines strongly influenced by too slow an ascend of the helicopter. This can not be avoided. It is therefore important to view Fugro's stacked profile plots in areas where strong radar altimeter gradients are visible.

SHADOW PLAN: A shadow map of the magnetic data is included. Sun angle is at 30° from N120°E.

INTERPRETATION MAP: this map shows the edited Fugro conductor picks coded as follows: open black circles=most likely caused by cover material or weak broad bedrock responses, red fill= bedrock conductors (Fugro classes B and D), green fill= edge conductors, larger blue circles=magnetic association. A few of Fugro's intercepts were deleted, 18 new ones added (labeled along the lines as intercepts Y and Z) and several reclassified (mainly from S? to B).

GENERAL COMMENTS:

Resistivities are calculated for the three coplanar coil sets. It has to be emphasized that the highest frequency (56,000Hz) correlates with near surface material like overburden and outcrops but does not "see" much below the overburden. The lowest frequency (900Hz) provides information of bedrock sources.

Most of the negative In-Phase (IP) responses are recorded in the western part of the grid. It can be assumed when they are not associated with positive Out-of Phase (OP) responses that they are caused by magnetite, otherwise sulphides may be present, and it is than not possible to calculate conductivities properly. This may not be a big problem when searching for porphyry type responses for alteration zones may show larger areas of conductivity or resistivity (relative to the surrounding areas) than those of the negative IP responses. On the other hand skarns may show sharp magnetic highs together with distorted EM responses. This means that one has to be careful selecting or discarding information.

The question can be asked: did Fugro staff interpret enough? One can under- and over-interpret. This reviewer's belief is that as long as all data is preserved that the initial interpretation should focus on the exploration objectives of the property, therefore do not over-interpret. The calculation of resistivities is straight forward using a computer algorithm. Picking or selecting conductors is another matter. Staff of most contractors is

² Offsets are: -2.5, 3.6, 0.76 and 17.7ppm for IP1000, OP1000, IP5500 and OP5500Hz respectively. Vertical scales are 1.0ppm/mm for the 1000Hz and 2.0ppm/mm for the 5500Hz results.

currently under great pressure to produce. This does not mean that they do a bad or insufficient job; it means that a few features may not get selected. However it has to be kept in mind that this type of data set produces numerous anomalous responses and to select only bedrock conductors (both discreet anomalies and those caused by alteration) is an art more than a science. A few examples of profile segments selected at random from this data set are attached; they show where more conductors could have been selected and how difficult it is to take susceptibility type responses in to consideration.³

Line 10020: The negative IP response and very weak positive OP of intercept H⁴ suggests veinlets of magnetite combined with lesser sulphides (e.g. pyrite and pyrrhotite.) The magnetic profile shows a coincident peak of ~600nT. The DEM and altimeter profiles suggest the source to be outcropping (a small ridge). Note that the EM and magnetic responses show two sources ~65m apart. Fugro suggests (page 7.6 paragraph 3 of its report) that this could be a skarn however its strike extent (see adjacent lines) and the general pattern of the magnetic data in this area suggests more a formational magnetic/resistive unit.

Line 10050: A typical conductor in a magnetic flat area. Close observation of the EM profiles suggests that the main peak is possibly flanked on both sides by conductors of still lesser conductivity (~50m apart.)

Line 10060: Two parallel conductors without a magnetic association. To the south are negative IP with very weak OP responses recorded suggesting mainly magnetite veining.

Line 10370: Intercepts A and B are the typical edge responses of a 650m wide conductive non-magnetic unit (block). Immediately south of B are noisy responses caused by steep topography.

Line 10490: Conductors C and B are flanked on the north side by a weaker very weakly magnetic conductor Z⁵. This weak feature was not selected by Fugro staff but indicates that any ground follow up work should include an area up to 100m away from the conductors.

Tie line 19040: An example of noisy data due to back-looping of the helicopter in steep terrain.

To emphasize, it is not recommended (at this time) to reinterpret the data set and select more conductors, Fugro's work is a good start. Numerous other examples could have been picked so the additional comments made for each of the six lines above are just that and should not be taken out of context.

COMMENTS ON FUGRO INTERPRETATION:

Some of the comments below follow those made by Fugro staff in its report. For simplicity is their page number included (e.g. 7.4).

³. Horizontal and vertical scales vary and depend on the portion of the line selected while the vertical scale tries to show as much range as possible for each line. The conductor labels are those of the Fugro intercepts along the lines not those of conductive zones also shown on the interpretation map.

⁴ Fugro's conductor intercept label.

⁵ This reviewer's conductor intercept label.

The magnetic image shows that the western part of the grid is underlain by a variety of magnetic units while the eastern part is magnetically flat. Outstanding is a N20°E trending high centered at ~ 403,200E-6,333,700N. It appears cut off in the south by a fault. To its west is a weaker magnetic high visible made up of numerous more isolated highs; that band swings more to the SSE in the south. The possible skarn units mentioned by Fugro (7.6 paragraph 3) are located in this area these anomalies are not unique and therefore (according to this reviewer) less attractive. Several structures can be interpreted (shown on the interpretation map).

Fugro did not present the 900 Hz resistivity map for most of it shows values above the cut-off. It shows a few weakly conductive areas, two of which correlate with conductors A and B described below. The 7,200 and 56,000Hz resistivity images are vastly improved from those created from the field results two months ago. There is still a problem with these newer outputs. Striping parallel to the flight lines is locally seen. There are several possible reasons for this but the new images are as good as one can expect in this rugged area. Elevated areas show high resistivities most likely associated with outcrops or very thin cover, while valleys (especially in the east) correlate with lower ones. Resistivity highs or lows not parallel to flight or tie lines are significant. An ~2000m long low is running N55°E through the area of the Gossan and Moly Zones and a weaker one is located 1000m further south.⁶ These lows are also shown on the interpretation map using the 500 ohmm contour (in red) as their outline.

Some 400 conductor intercepts were selected by Fugro all but one (L10480C part of Zone B⁷) reveal conductivities well below 5 Siemens. Most of them are considered caused by overburden but several line up and may reflect weak structures. A few clusters of bedrock conductors are grouped and labeled Zones A to D. Parts of B to D show a magnetic association. The strongest responses and conductivities are associated with Zones A and B. A parallel conductor runs 200m to the south of A.

Groups of intercepts can be interconnected with confidence in an often NE-SW direction (Zones H, I, J, K, L) other ones run more NW-SE (Zones O and N). Most of these are very weak and as mentioned above most likely reflect weak structures with or without a magnetic association. A few show more defined responses and are interpreted true bedrock conductors like Zones F, G and M.

The Gossan and Moly Zones are located within Zone C. This conductor and its extension, best seen on the 7200Hz resistivity map, is ~2000m long. It may reflect a structural zone of interest. A similar but weaker less continuous and less well-defined resistivity low to its south is labeled Zone J.

⁶ The possible resistivity low ring mentioned in an email dated August 18, 2007 is not more visible in the improved resistivity images and should be ignored.

⁷ This reviewer's conductor zone label.

CONCLUDING COMMENTS:

A complex EM and magnetic data set was collected by Fugro using its Dighem V system over the Voigtberg property. Most of the responses are weak and appear related to small structures.

The Gossan and Moly Zones are part of a 2000m long conductor trending N55°E. A weaker similar resistivity low is mapped 1000m further south.

Other significant resistivity lows correlate with bedrock conductors Zones A and B; the latter is the strongest (still weak) conductor detected.

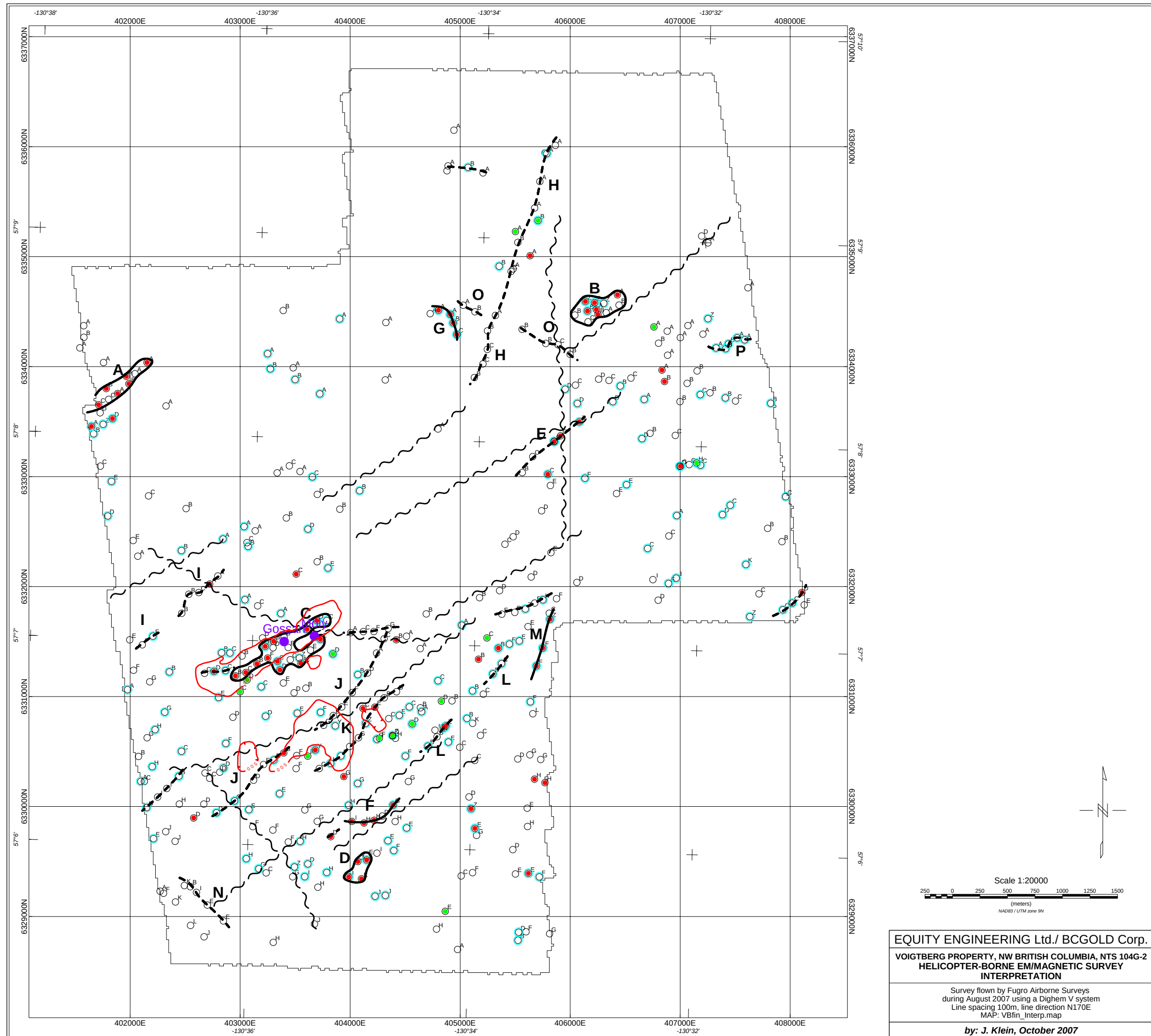
No unique combinations of resistivity and magnetic highs (possibly reflecting skarns) are visible.

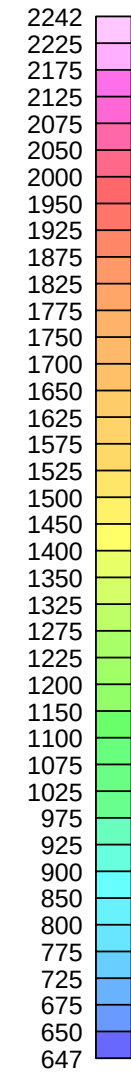
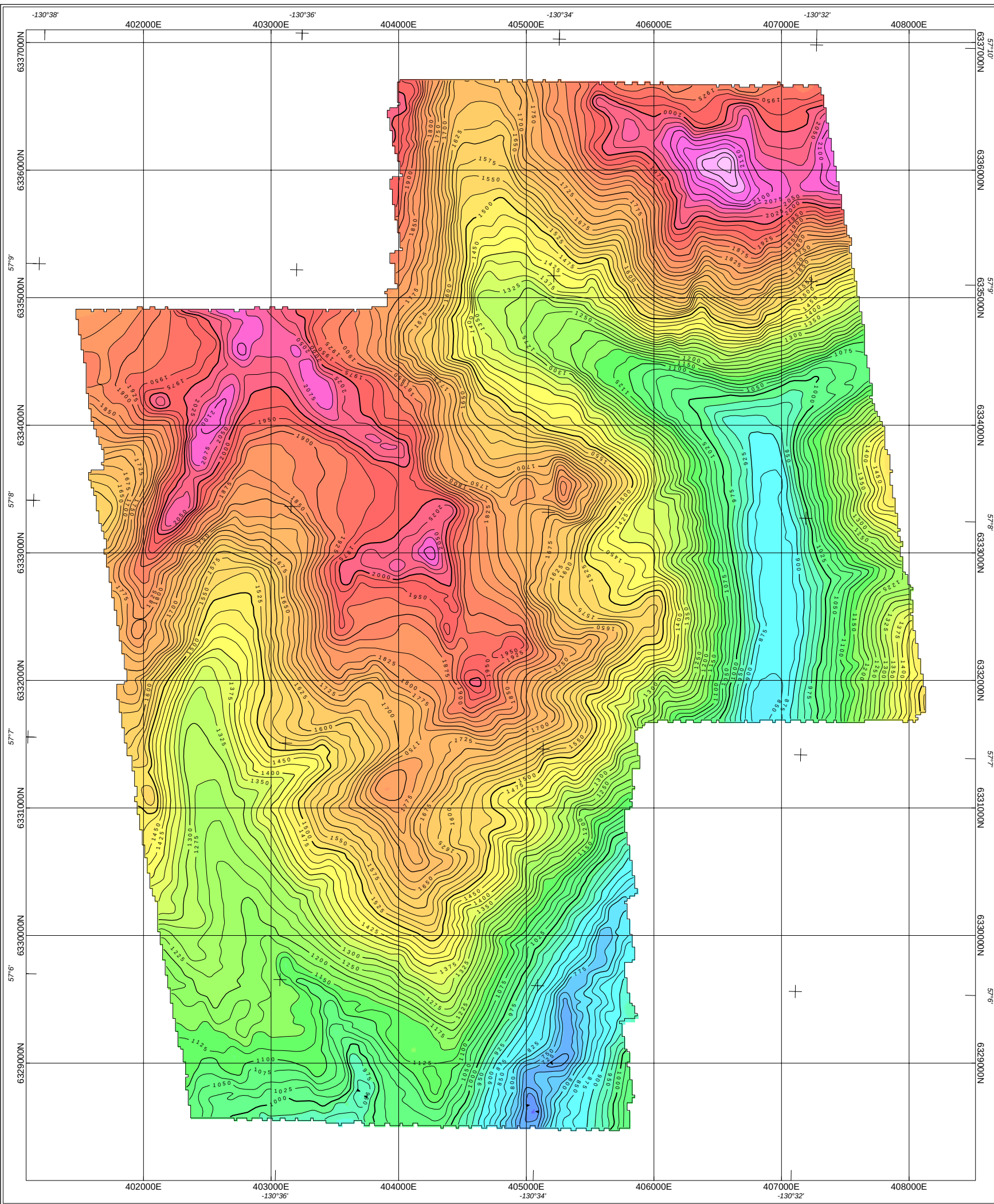
It is difficult to make specific recommendations other than to suggest ground checking any conductor intercepts in the vicinity of interesting outcrops to determine their source and possible significance to mineralization. Complexity (or better called multiplicity) of several responses suggests also to ground check up to 100m to the sides of them.

Respectfully submitted,

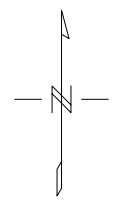
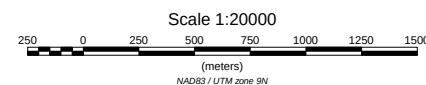
Jan Klein, M.Sc., P.Eng., P.Geo.
Consulting Geophysicist

Delta, BC, November 1, 2007

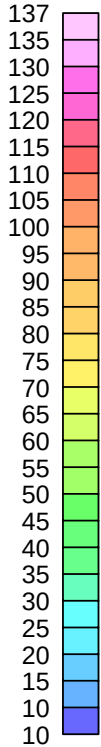
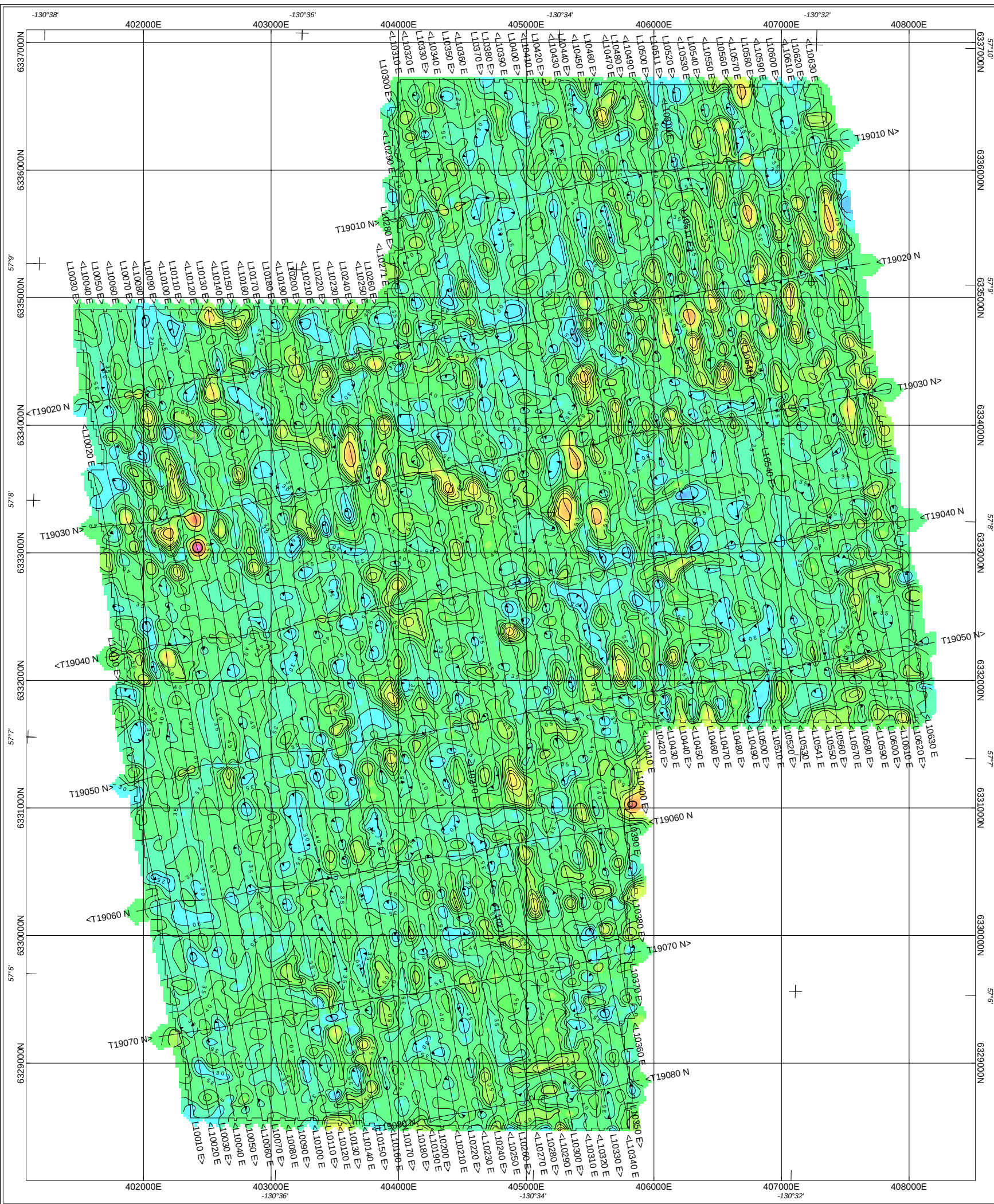




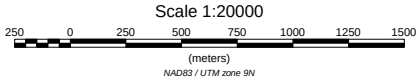
Digital Terrain Image
in meters



EQUITY ENGINEERING Ltd./ BCGOLD Corp.	
VOIGTBERG PROPERTY, NW BRITISH COLUMBIA, NTS 104G-2 HELICOPTER-BORNE EM/MAGNETIC SURVEY DIGITAL TERRAIN IMAGE	
Survey flown by Fugro Airborne Surveys during August 2007 using a Dighem V system Line spacing 100m, line direction N170E MAP: VBfin_DTM.map	
by: J. Klein, October 2007	



RADAR ALTIMETER
in meters

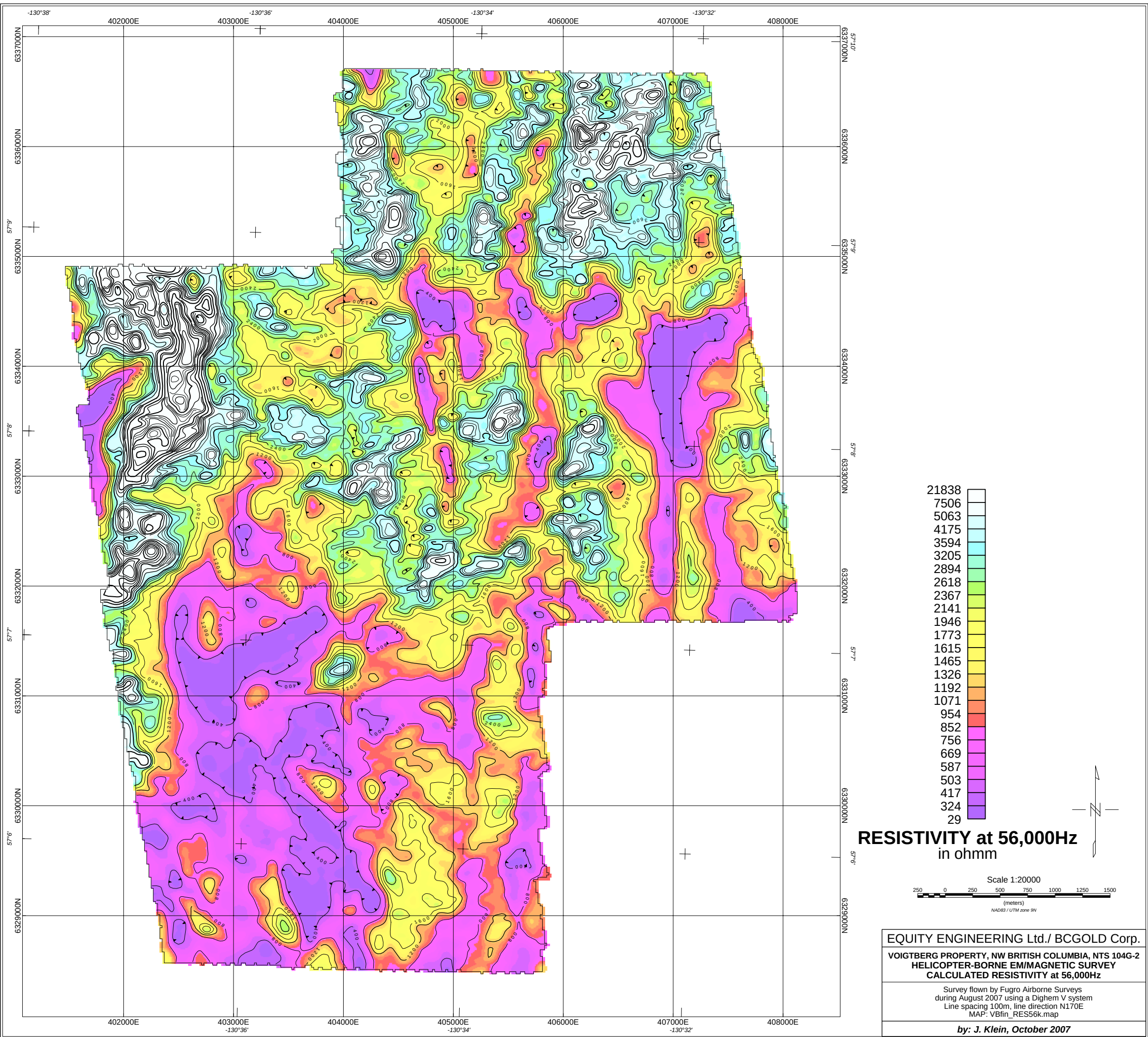


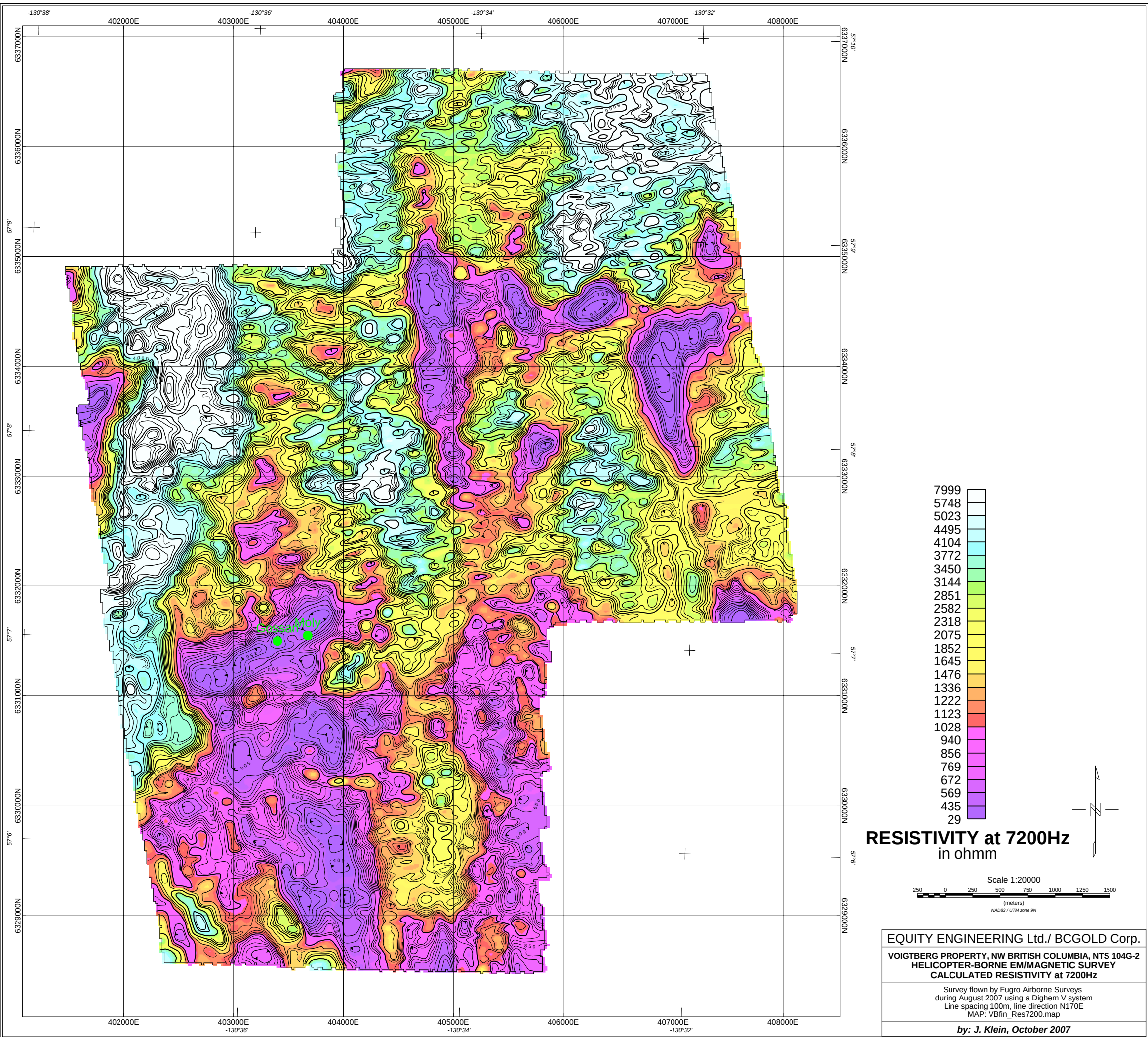
EQUITY ENGINEERING Ltd./ BCGOLD Corp.

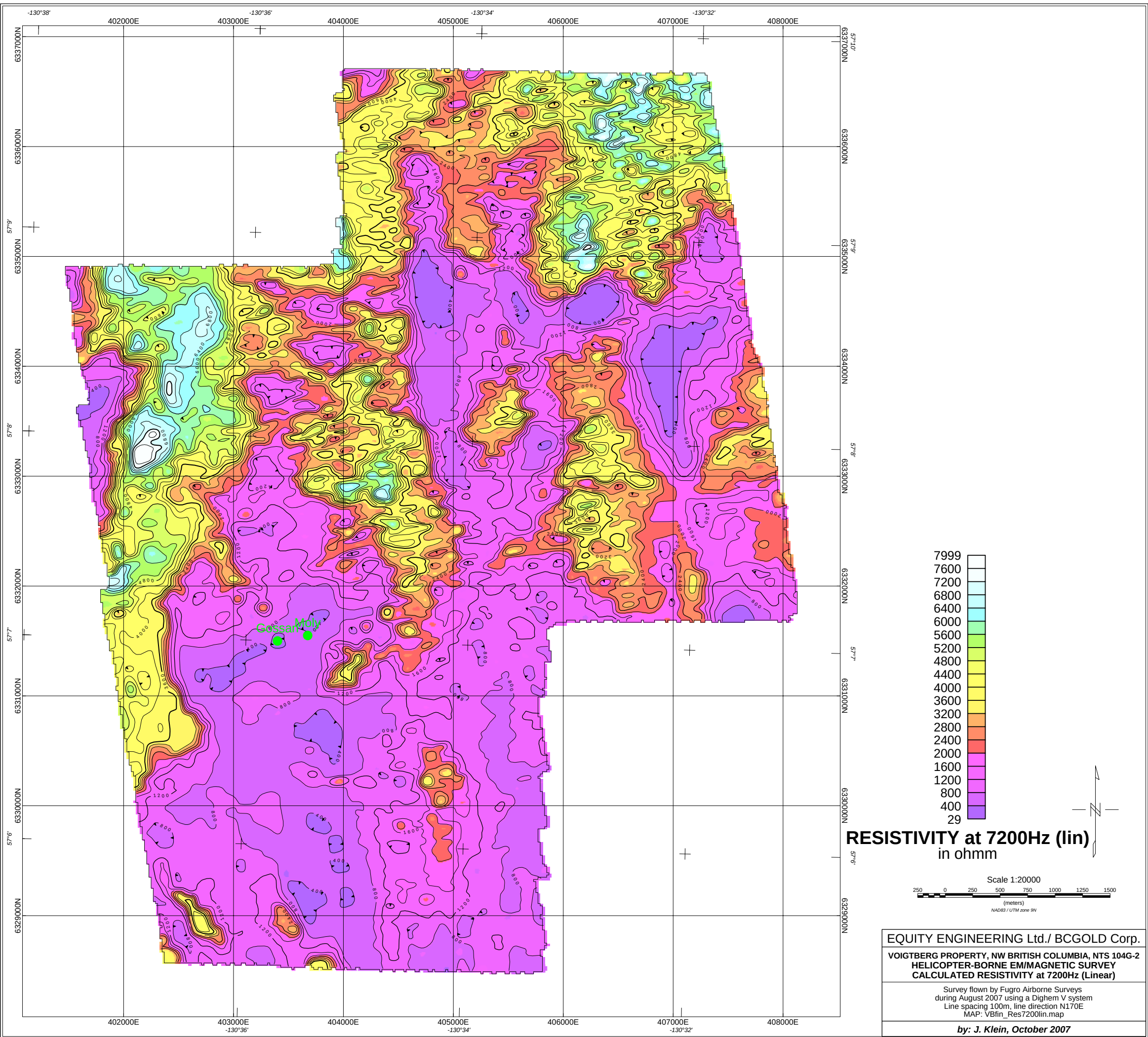
VOIGTBERG PROPERTY, NW BRITISH COLUMBIA, NTS 104G-2
HELICOPTER-BORNE EM/MAGNETIC SURVEY
RADAR ALTIMETER DATA (=helicopter height)

Survey flown by Fugro Airborne Surveys
during August 2007 using a Dighem V system
Line spacing 100m, line direction N170E
MAP: VBfin_RadAlt.map

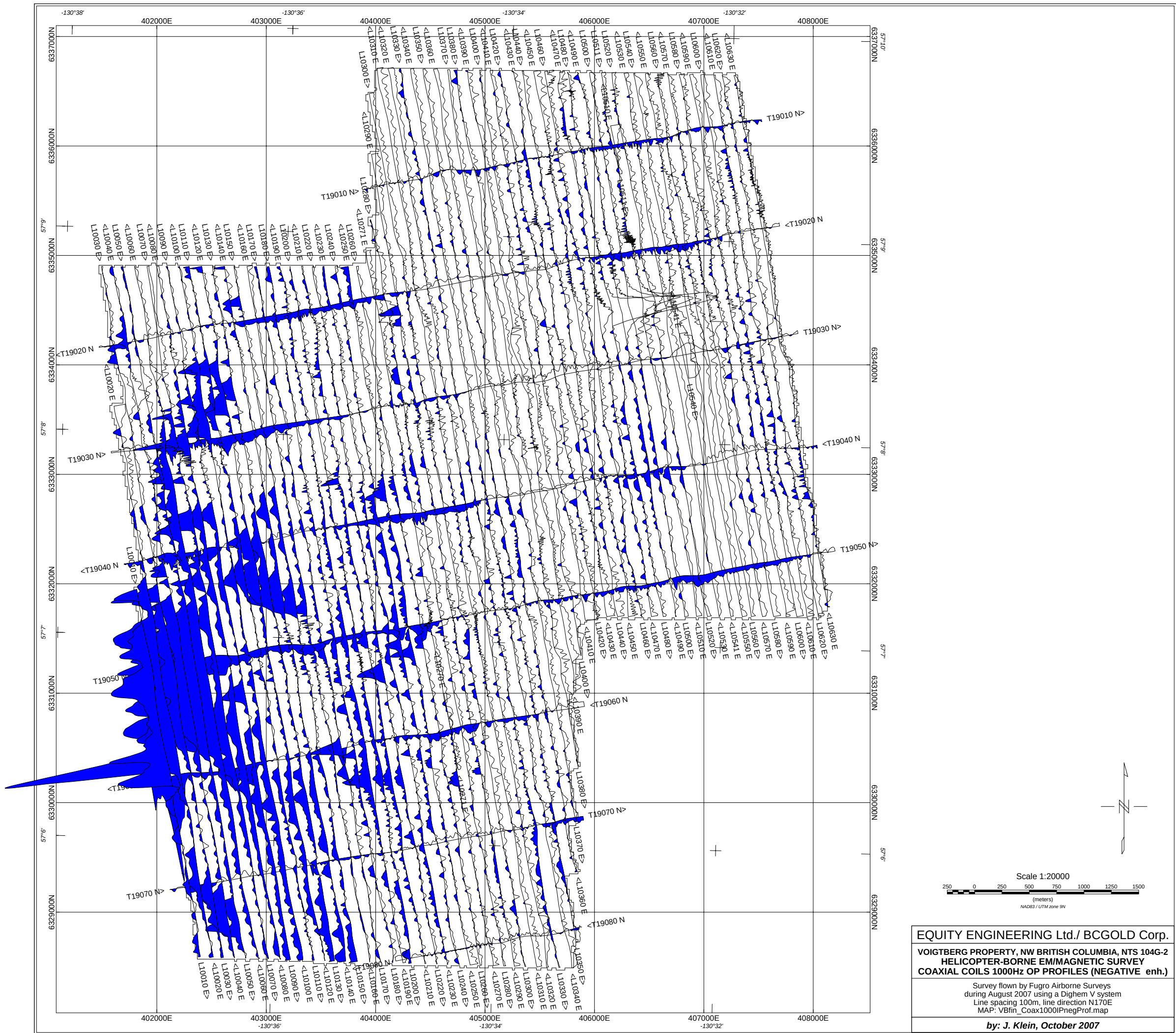
by: J. Klein, October 2007

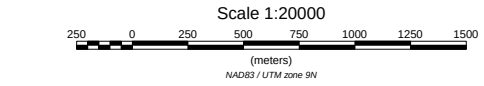
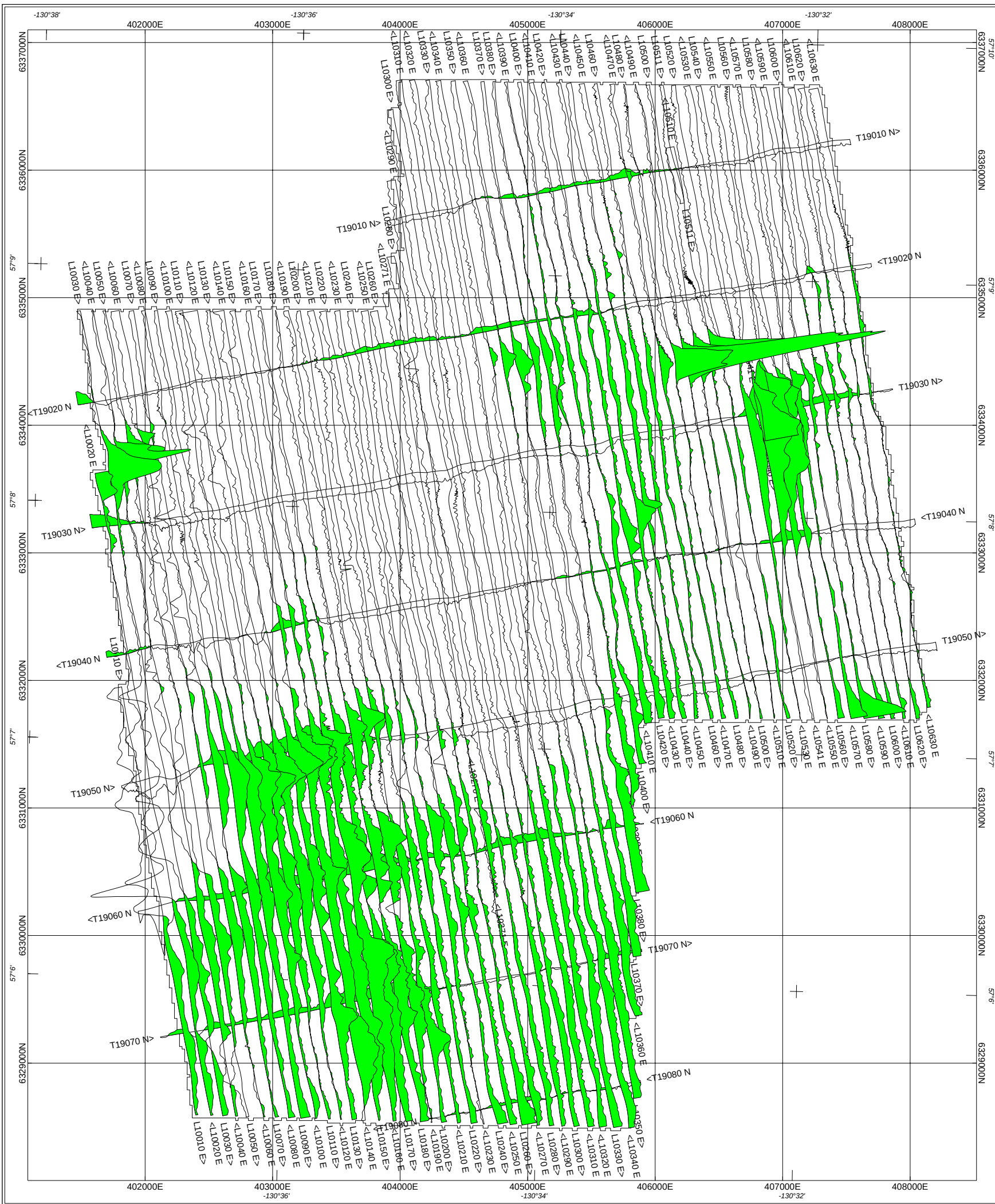










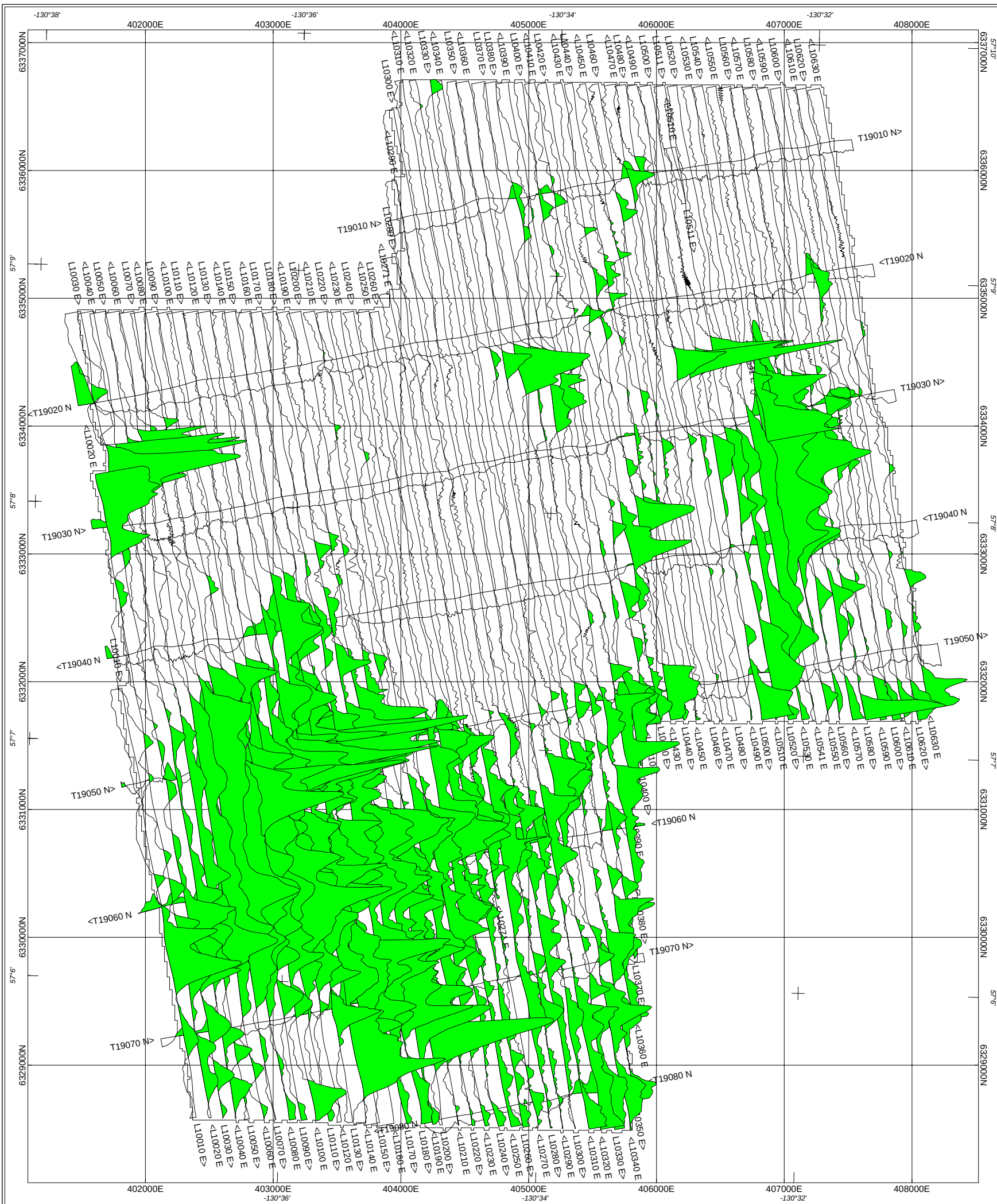


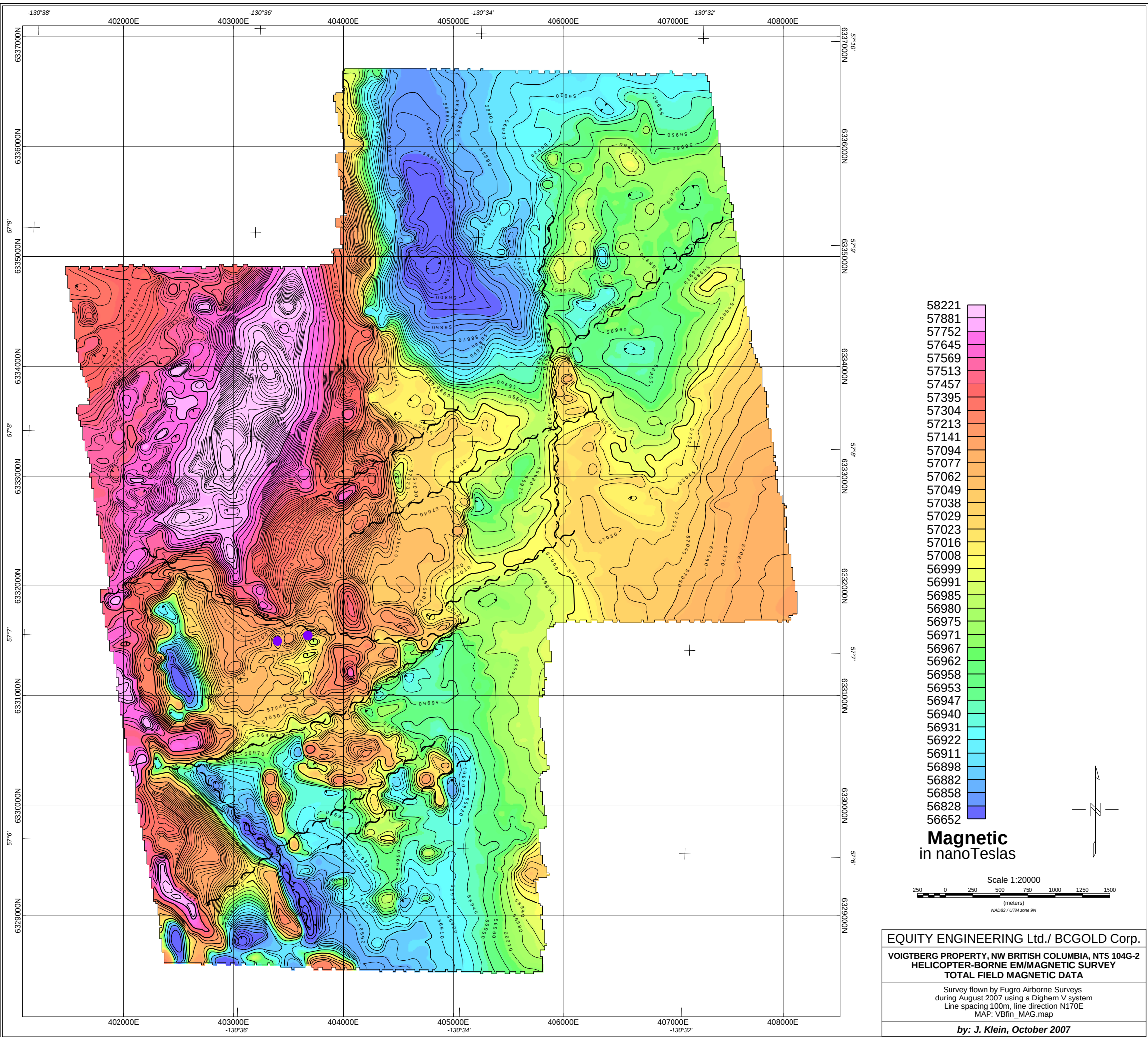
EQUITY ENGINEERING Ltd./ BCGOLD Corp.

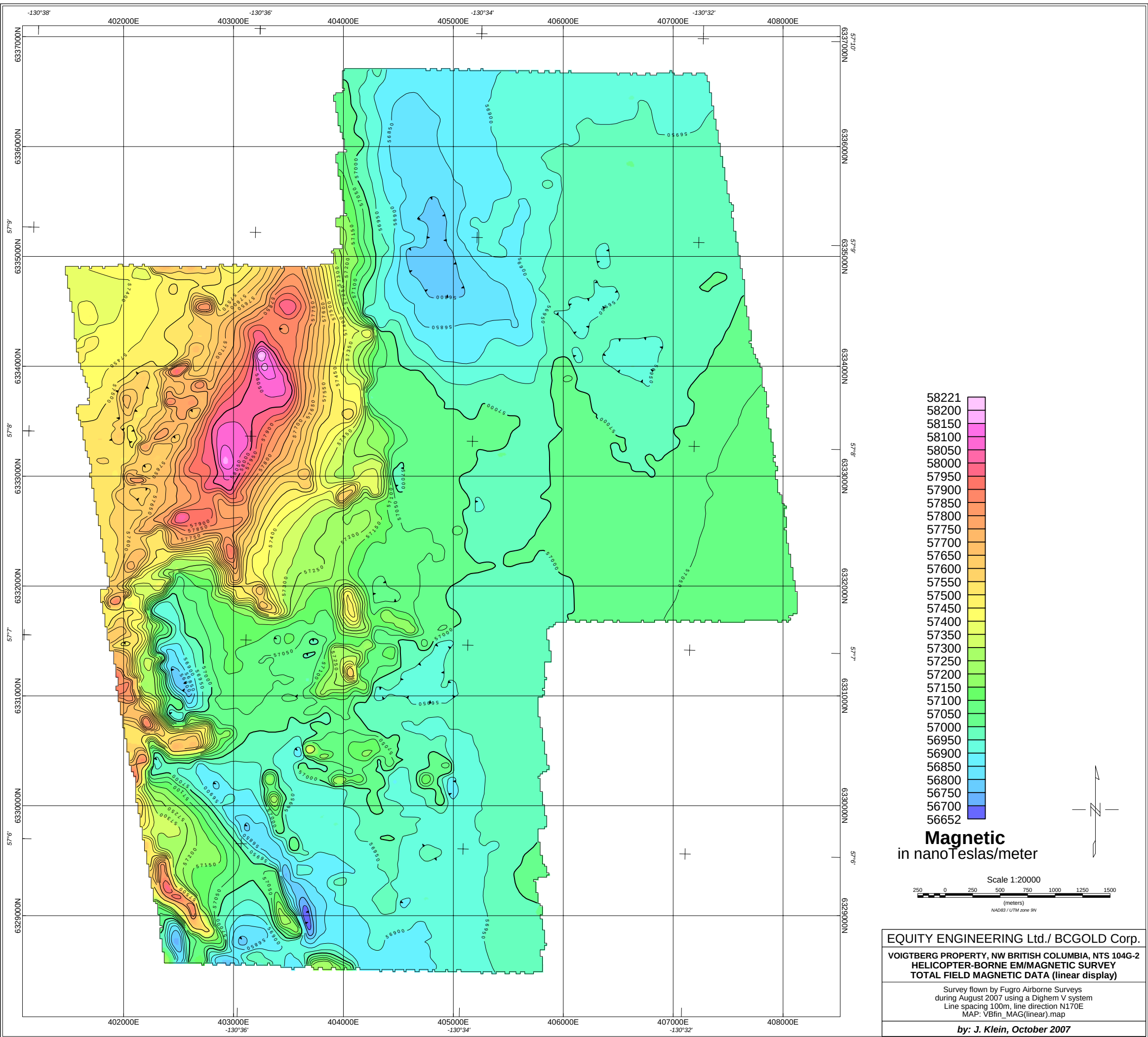
VOIGTBERG PROPERTY, NW BRITISH COLUMBIA, NTS 104G-2
HELICOPTER-BORNE EM/MAGNETIC SURVEY
COAXIAL COILS 5500Hz IP PROFILES

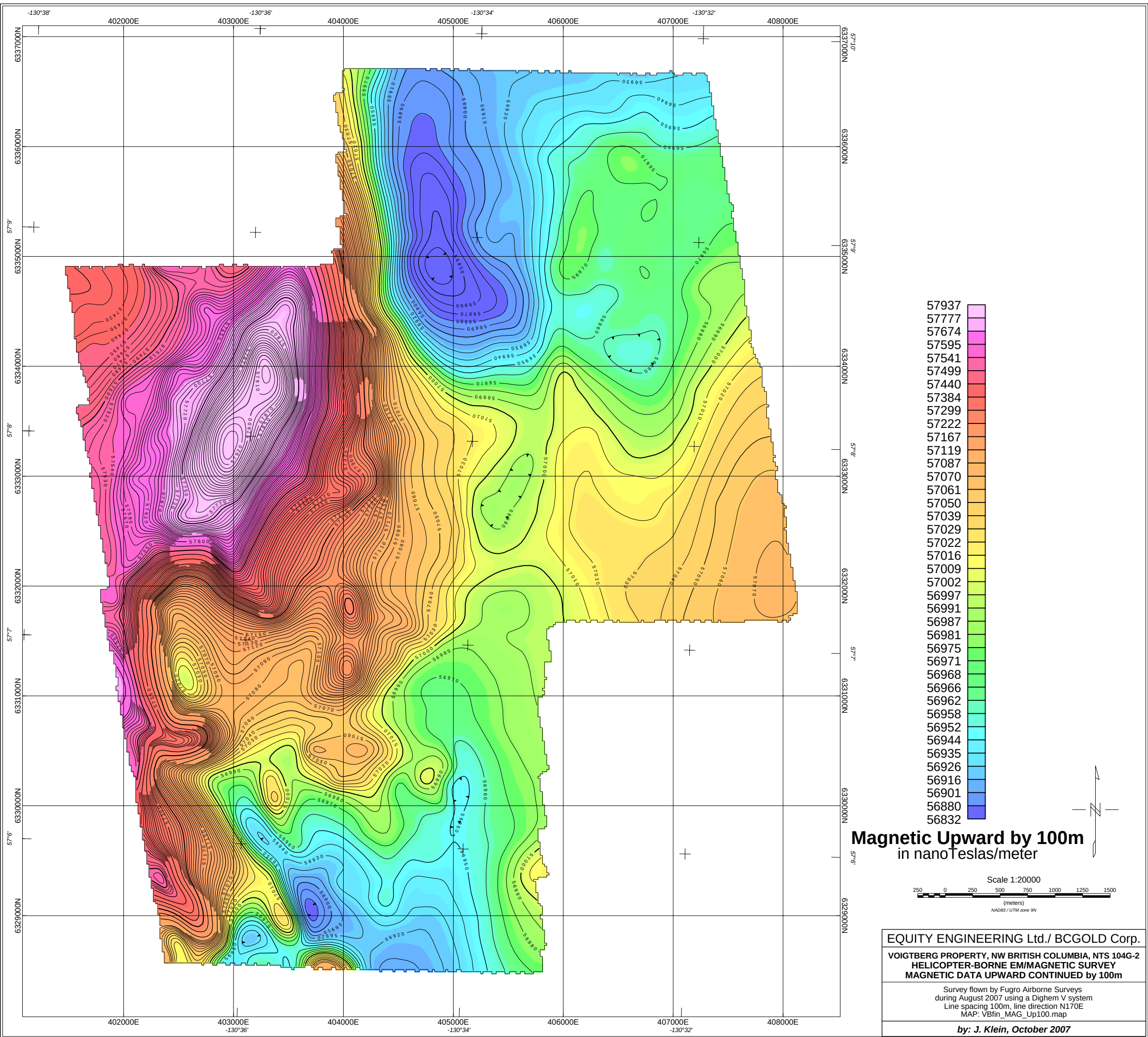
Survey flown by Fugro Airborne Surveys
during August 2007 using a Dighem V system
Line spacing 100m, line direction N170E
MAP: VBfin_Coax5500IPProf.map

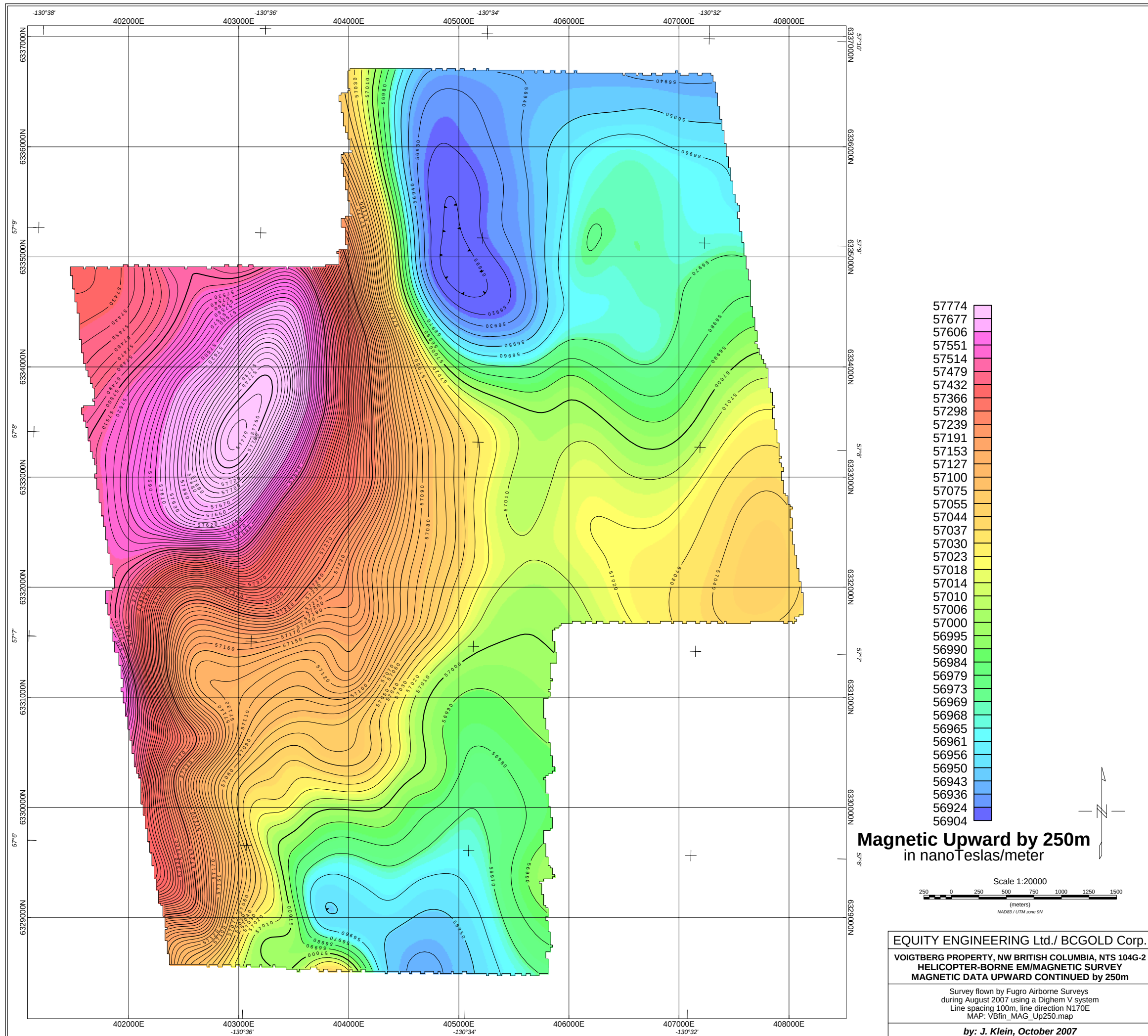
by: J. Klein, October 2007

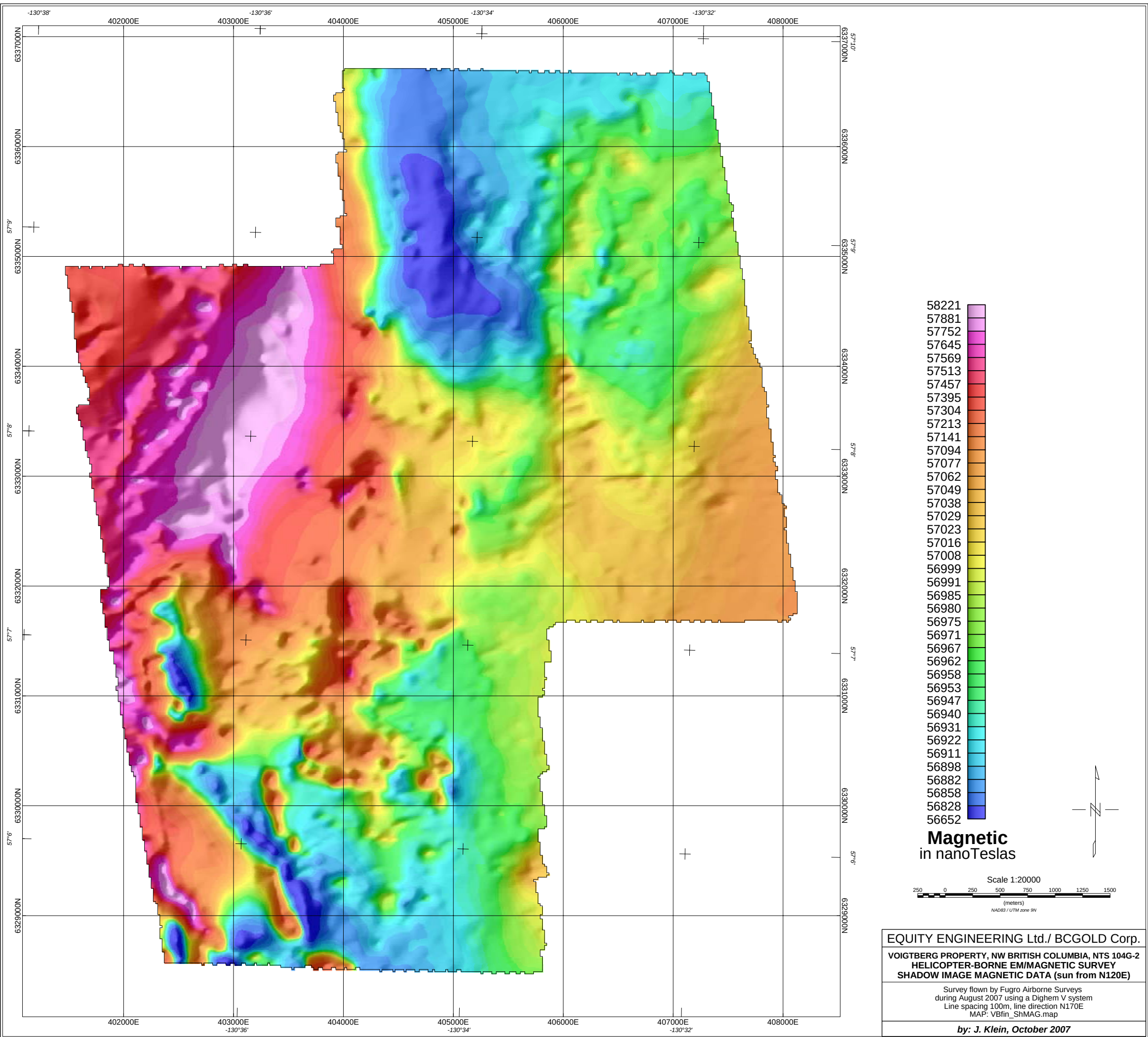


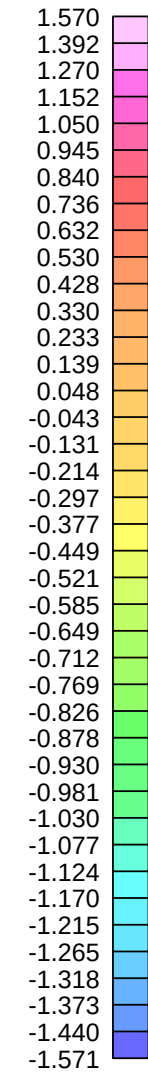
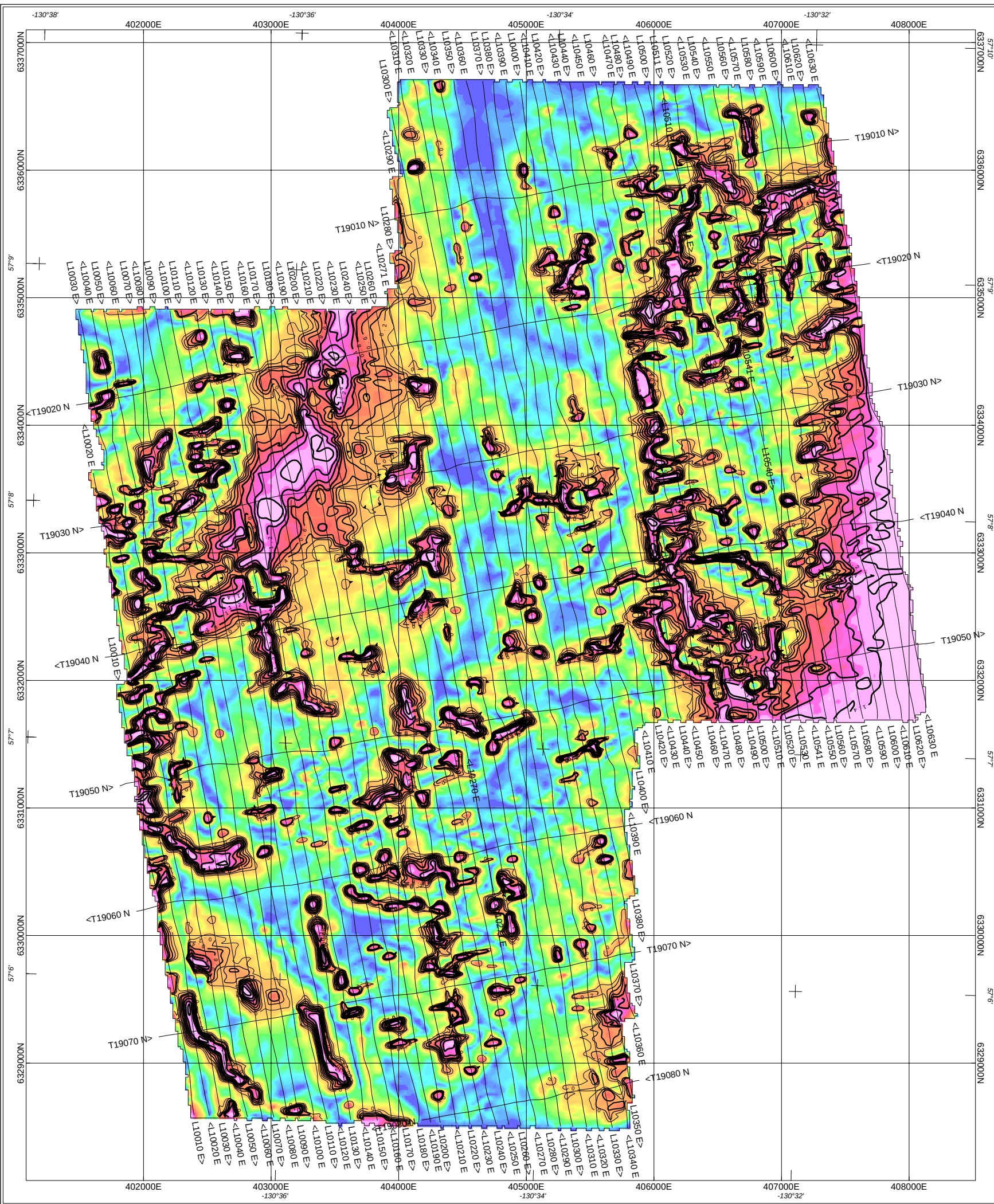




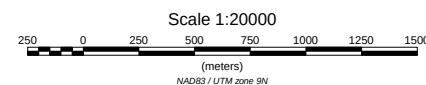








Tilt Der. of Magnetic

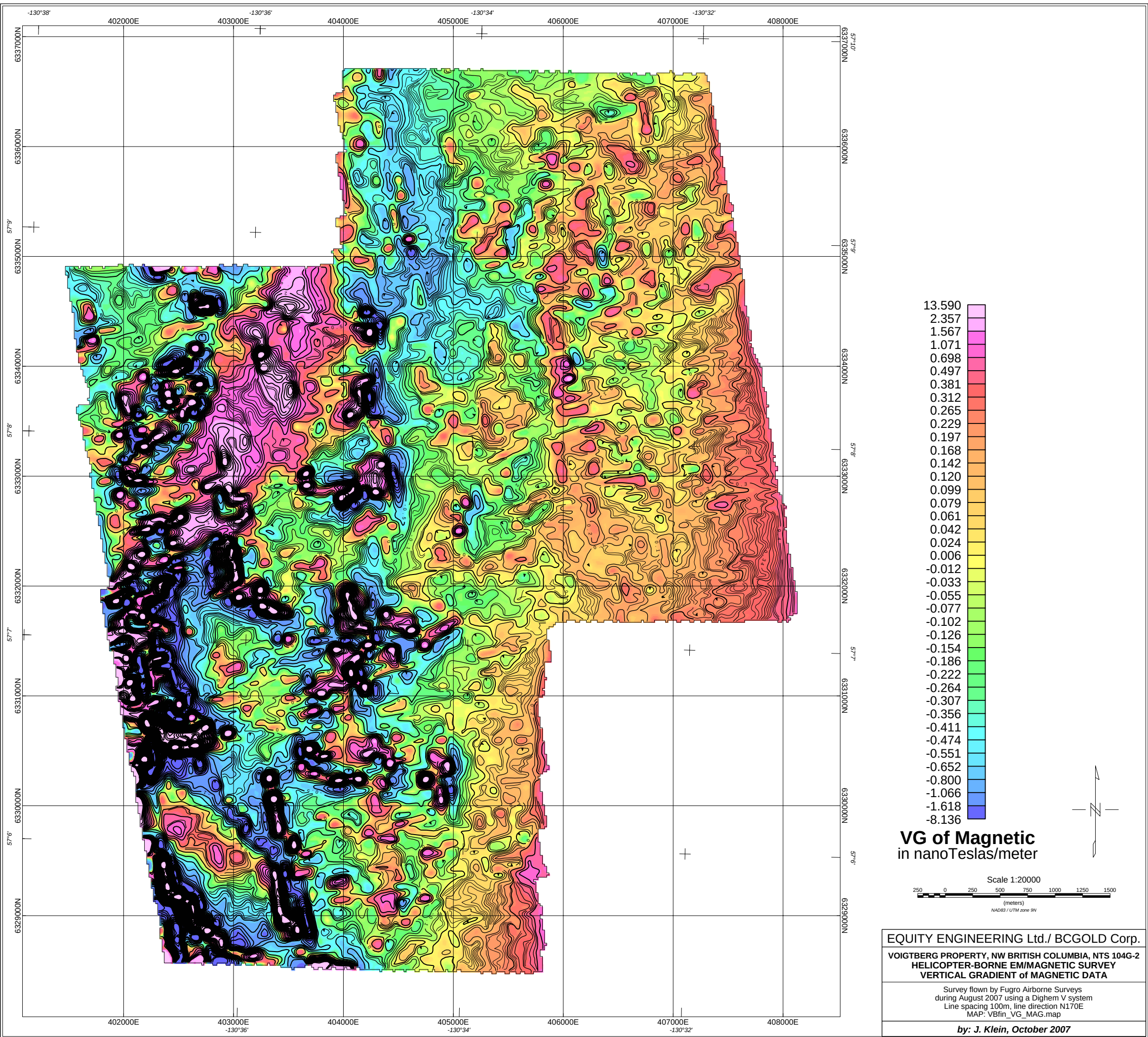


EQUITY ENGINEERING Ltd./ BCGOLD Corp.

VOIGTBERG PROPERTY, NW BRITISH COLUMBIA, NTS 104G-2
HELICOPTER-BORNE EM/MAGNETIC SURVEY
TILT DERIVATIVE of MAGNETIC DATA

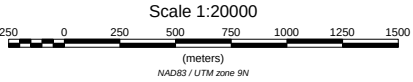
Survey flown by Fugro Airborne Surveys
during August 2007 using a Dighem V system
Line spacing 100m, line direction N170E
MAP: VBfin_TDR_MAG.map

by: J. Klein, October 2007



13.590
2.357
1.567
1.071
0.698
0.497
0.381
0.312
0.265
0.229
0.197
0.168
0.142
0.120
0.099
0.079
0.061
0.042
0.024
0.006
-0.012
-0.033
-0.055
-0.077
-0.102
-0.126
-0.154
-0.186
-0.222
-0.264
-0.307
-0.356
-0.411
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-1.066
-1.618
-8.136

VG of Magnetic
in nanoTeslas/meter



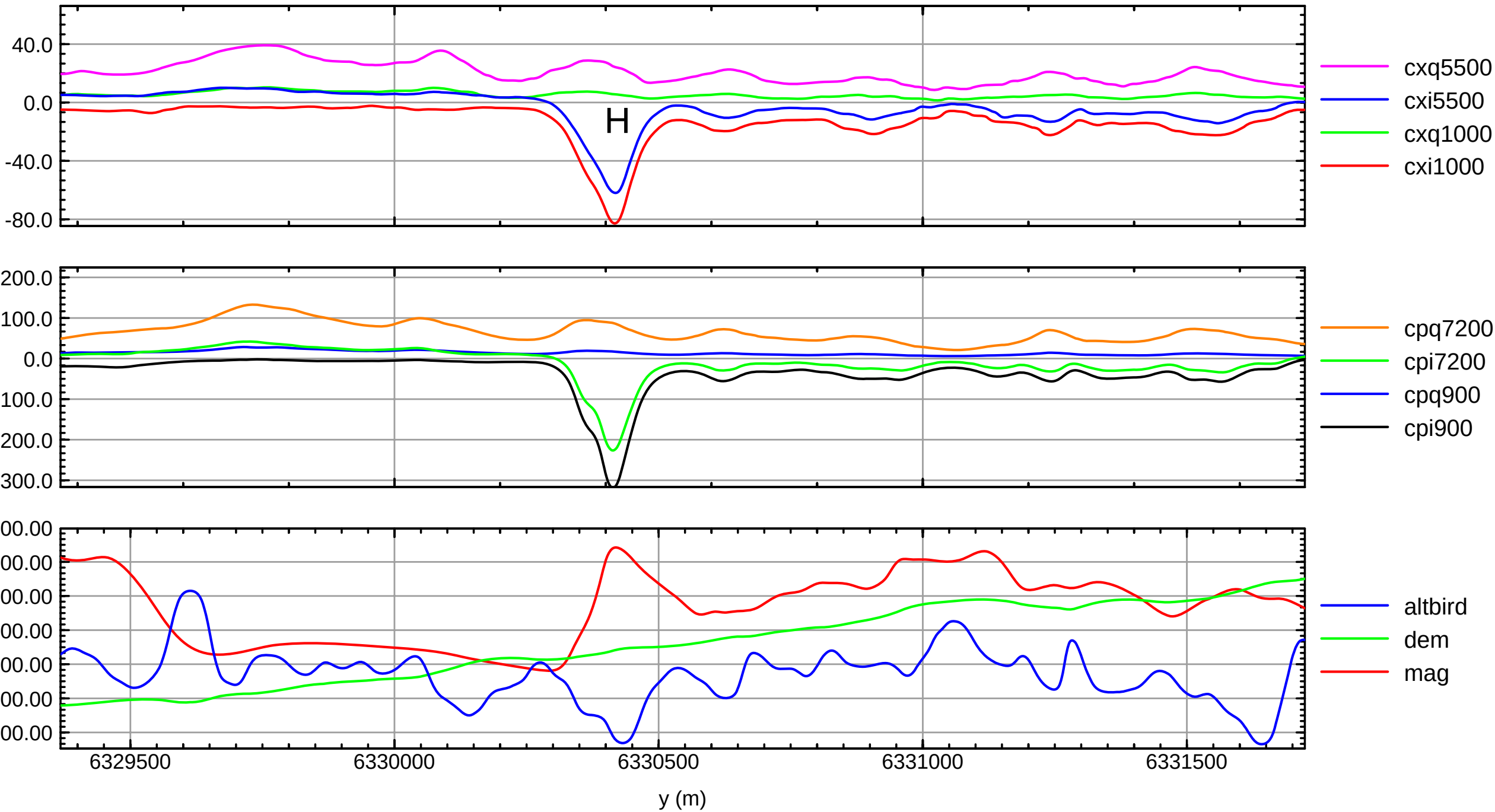
EQUITY ENGINEERING Ltd./ BCGOLD Corp.

VOIGTBERG PROPERTY, NW BRITISH COLUMBIA, NTS 104G-2
HELICOPTER-BORNE EM/MAGNETIC SURVEY
VERTICAL GRADIENT of MAGNETIC DATA

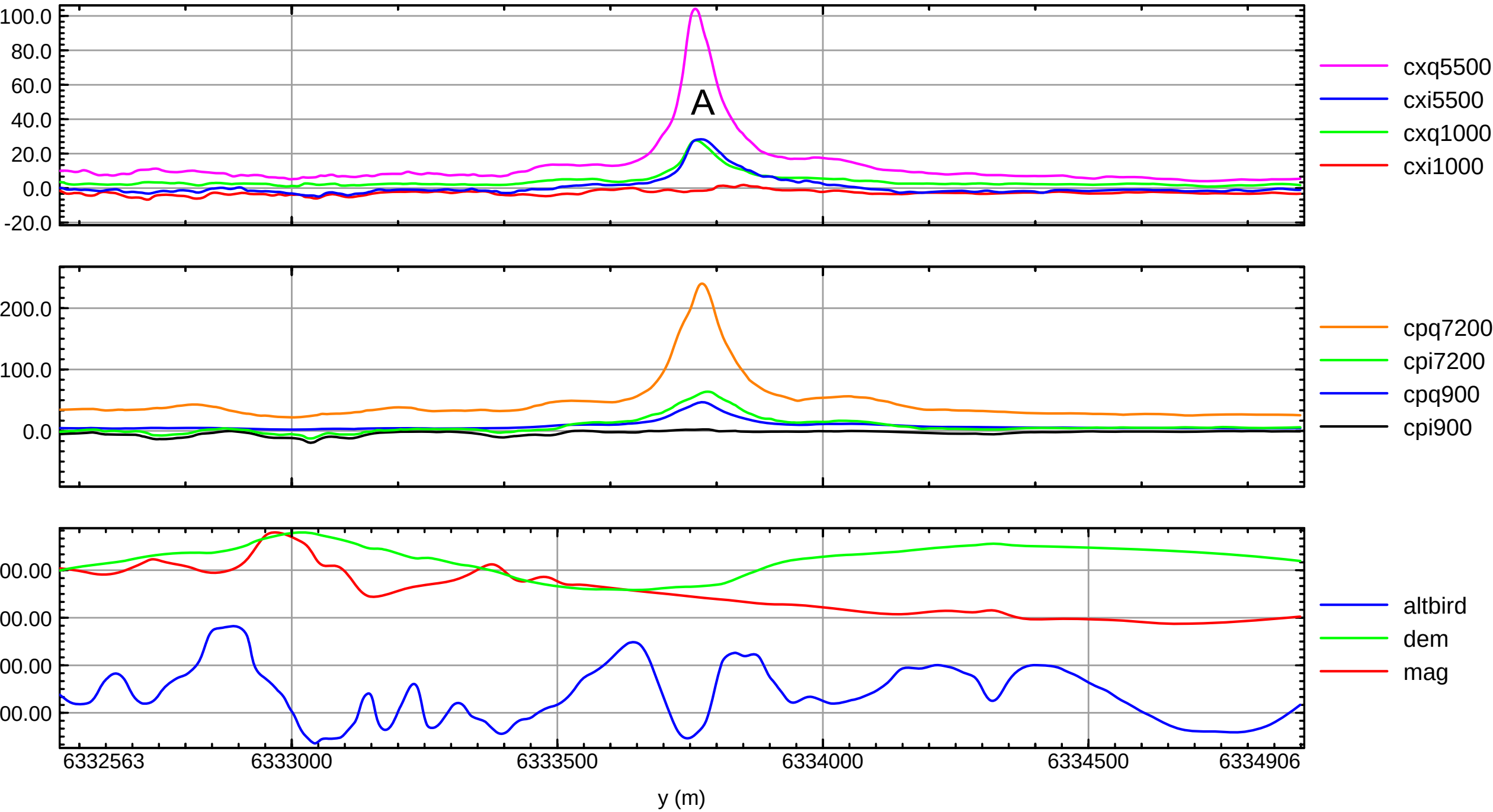
Survey flown by Fugro Airborne Surveys
during August 2007 using a Dighem V system
Line spacing 100m, line direction N170E
MAP: VBfin_VG_MAG.map

by: J. Klein, October 2007

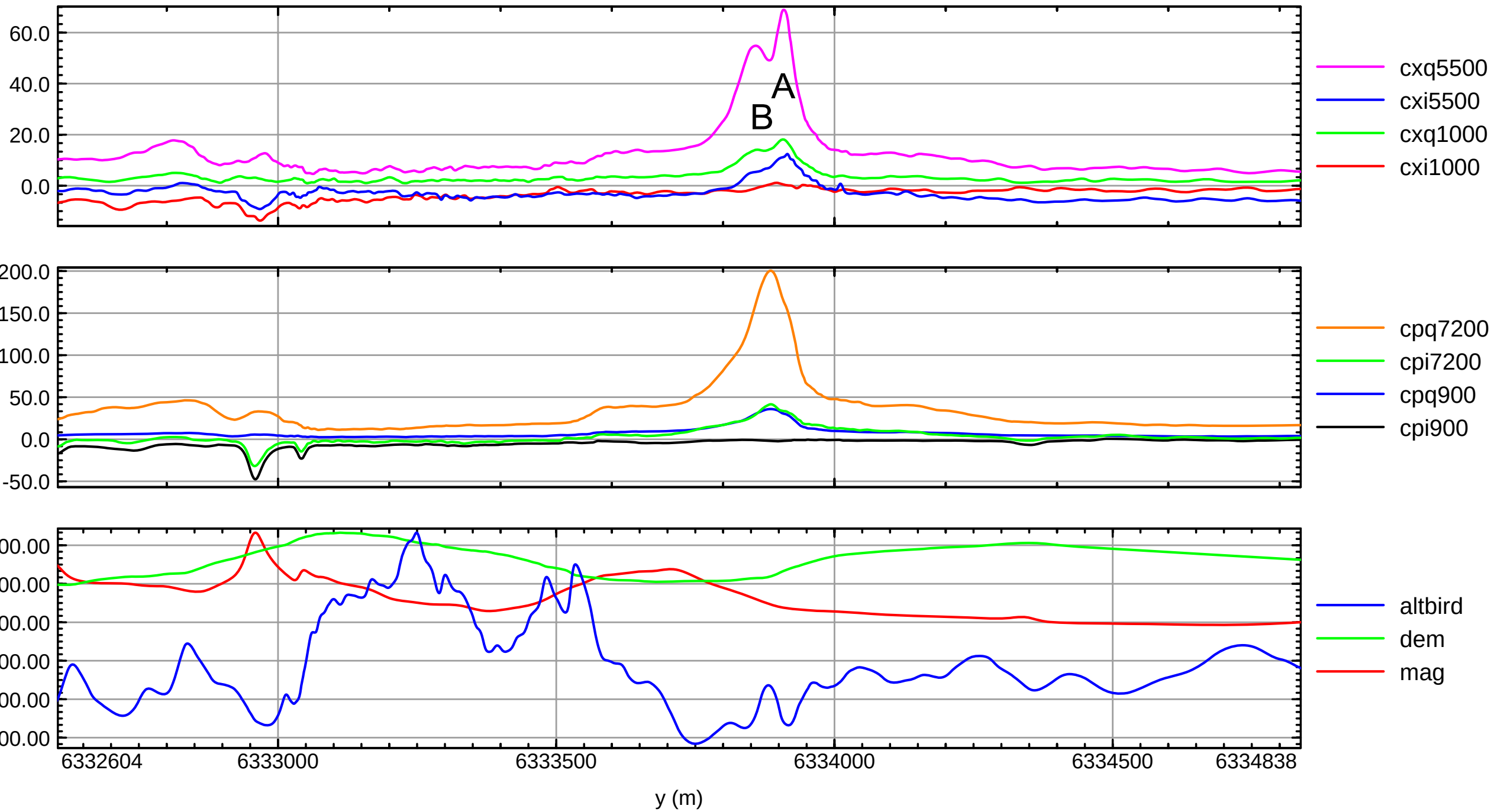
VOIGTBERG, detail Line 10020 near intercept H



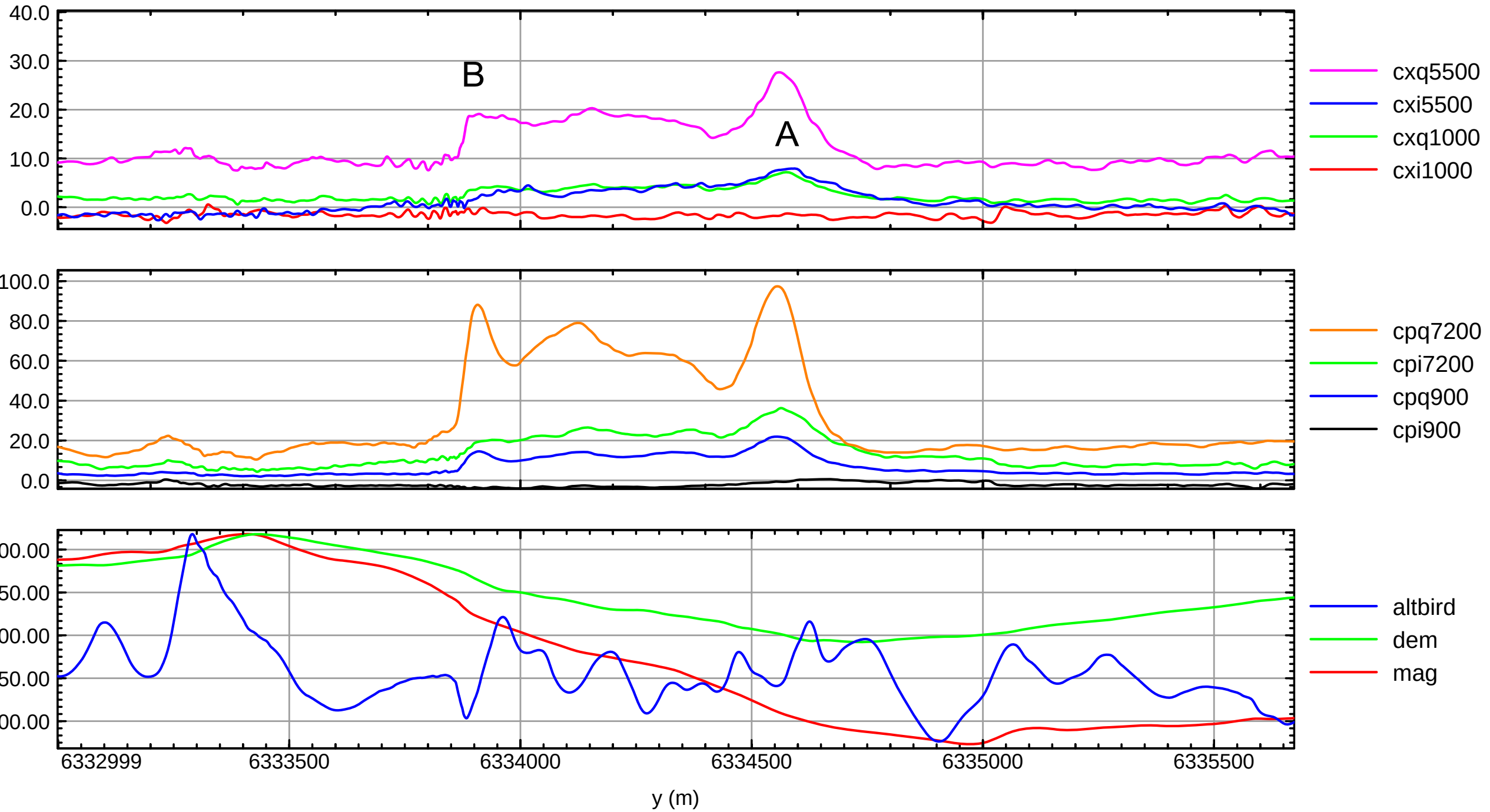
VOIGTBERG, detail Line 10050 near intercept A



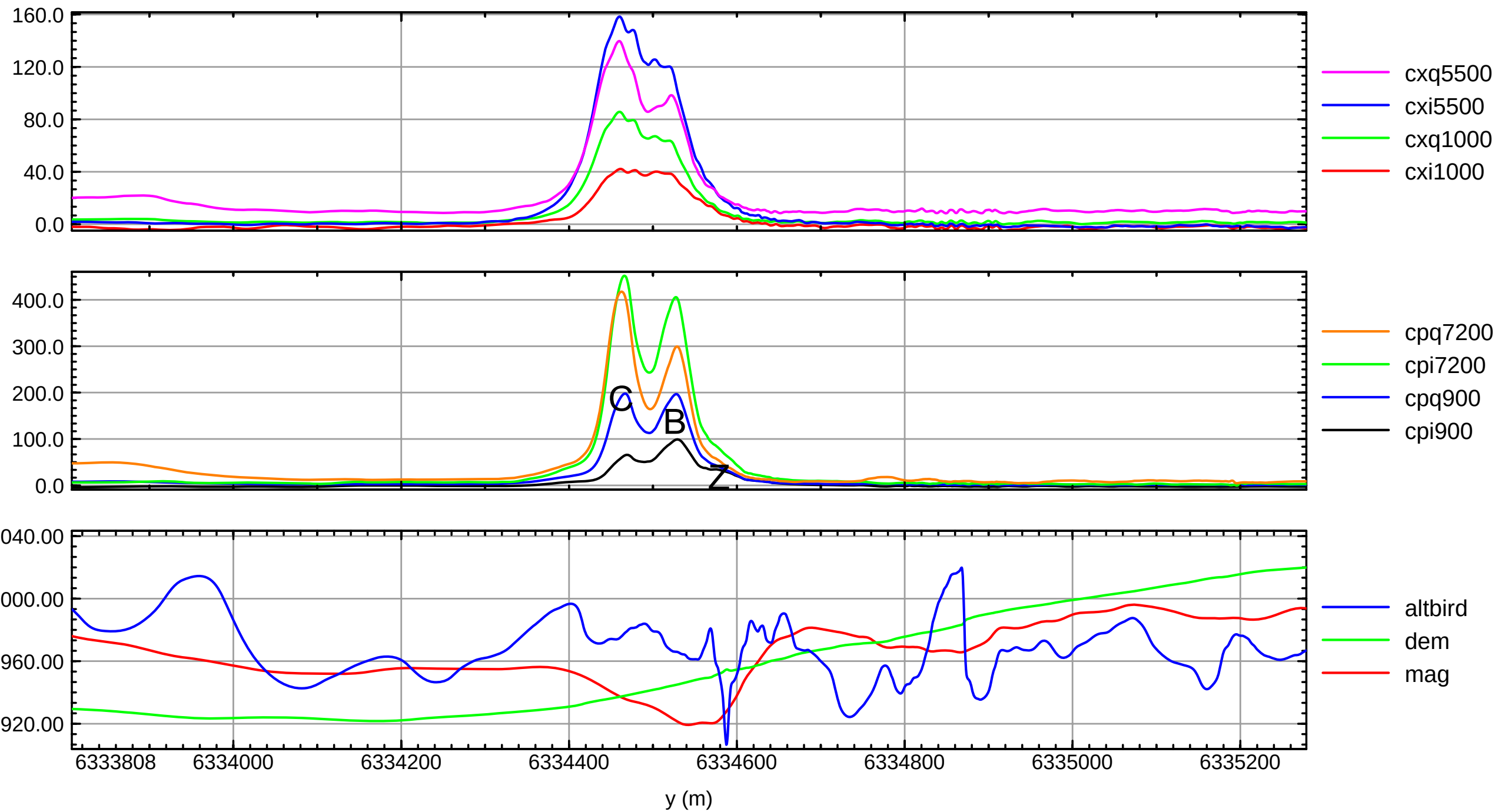
VOIGTBERG, detail Line 10060 near intercepts A and B



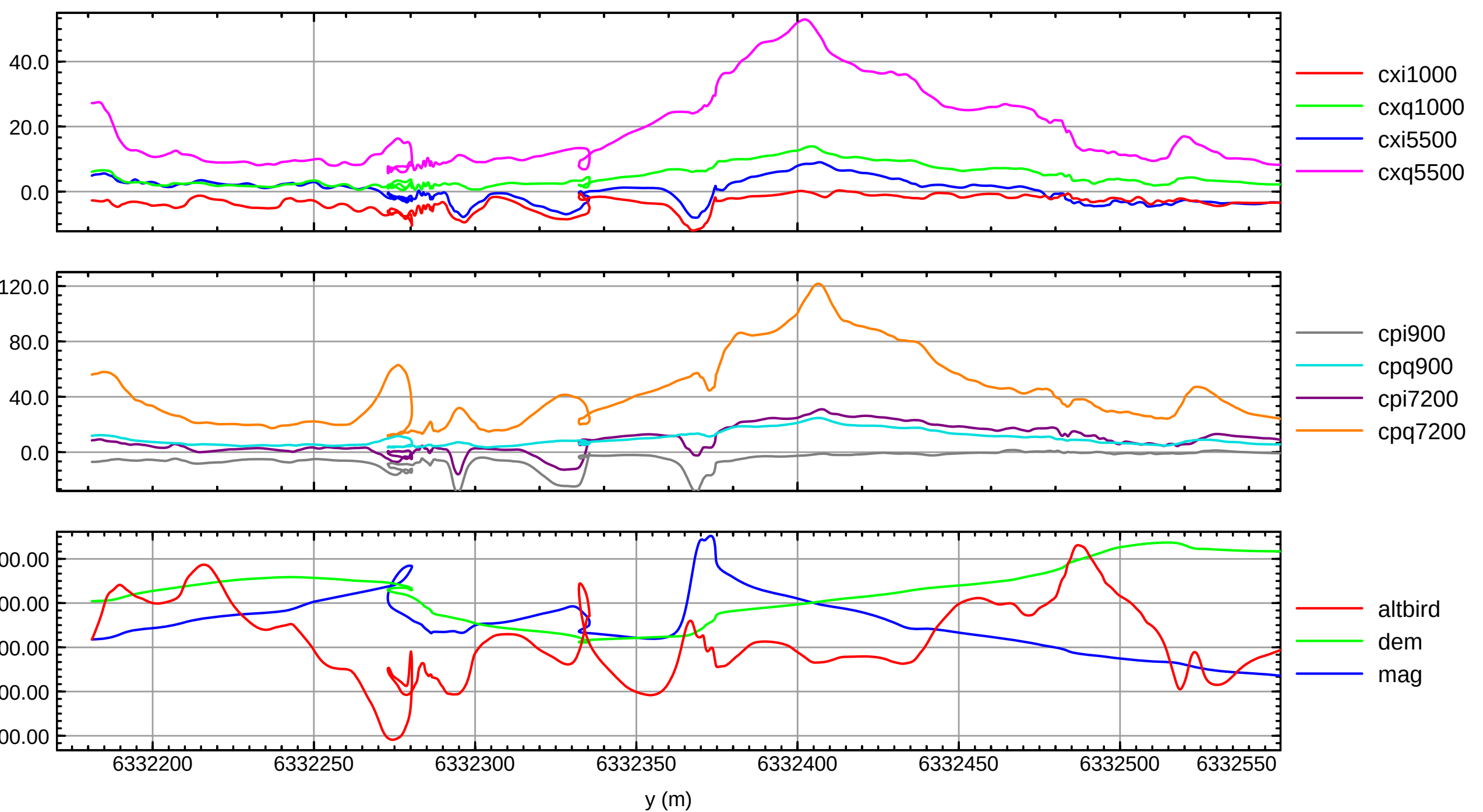
VOIGTBERG, detail Line 10370 near intercepts A and B



VOIGTBERG, detail Line 10490 near intercepts C, B and Z



VOIGTBERG, detail Tie Line 19040 indicating distortions due too steep ascend



Appendix H: Quality Control / Quality
Assurance

QUALITY CONTROL / QUALITY ASSURANCE

I Chain of Custody

All samples were packed in rice sacks and sealed with uniquely-numbered non-resealable security straps. Rice sacks were shipped via Bandstra Transportation Systems Ltd. from Bob Quinn Lake, B.C. to ALS Chemex Labs in Terrace. ALS Chemex reported no tampering with the security seals.

II Blanks

Blanks are samples which are known to be barren of mineralization and are inserted into the sample stream to determine whether contamination has occurred after sample collection. Blank material for both soils and silts consisted of commercially available fine silica sand.

a. Soil Blanks

Six blanks were inserted into the soil sample stream in the field. ALS Chemex analyzed them with along with the other soil samples for Au and 35-element ICP or 51-element MS-ICP. All elements for these blanks reported values near the detection limit or below.

b. Core Blanks

Five blanks were inserted in the drill core sample stream in the field. ALS Chemex analyzed them with along with the other core samples for Au and 35-element ICP. All elements for these blanks reported values near the detection limit or below for all elements of interest.

III Field Duplicate Analysis

Field duplicates are separate samples taken in the same manner from the same location. They are used to measure inherent variability in metal content from a single location and sample medium, and give an idea of sample reproducibility in the field. Soil and silt duplicates were produced by collection of two samples from the same location using the same sampling protocol.

a. Soil Duplicates

Fourteen pairs of field duplicates were inserted into the soil sample stream in the field. ALS Chemex analyzed fourteen of them with along with the other soil samples for Au and 35-element ICP. One batch of the soils, including 3 of the soil duplicates, were analyzed for Au and 51-element MS-ICP. Soil duplicates were reproducible at 20% precision for all base and precious metals except for Au and Mo, which were reproducible at 40% precision.

b. Core Duplicates

Nineteen pairs of field duplicates were inserted into the drill core sample stream in the field. ALS Chemex analyzed them with along with the other core samples for Au and 35-element ICP. The core duplicates were reproducible at 20% precision for all most metals of interest (Ag, As, Cu and Mo). However, Pb was reproducible only at 40% precision and both Au and Zn were reproducible only at 80% precision, indicating significant variation in metal content between the two halves of a core sample.

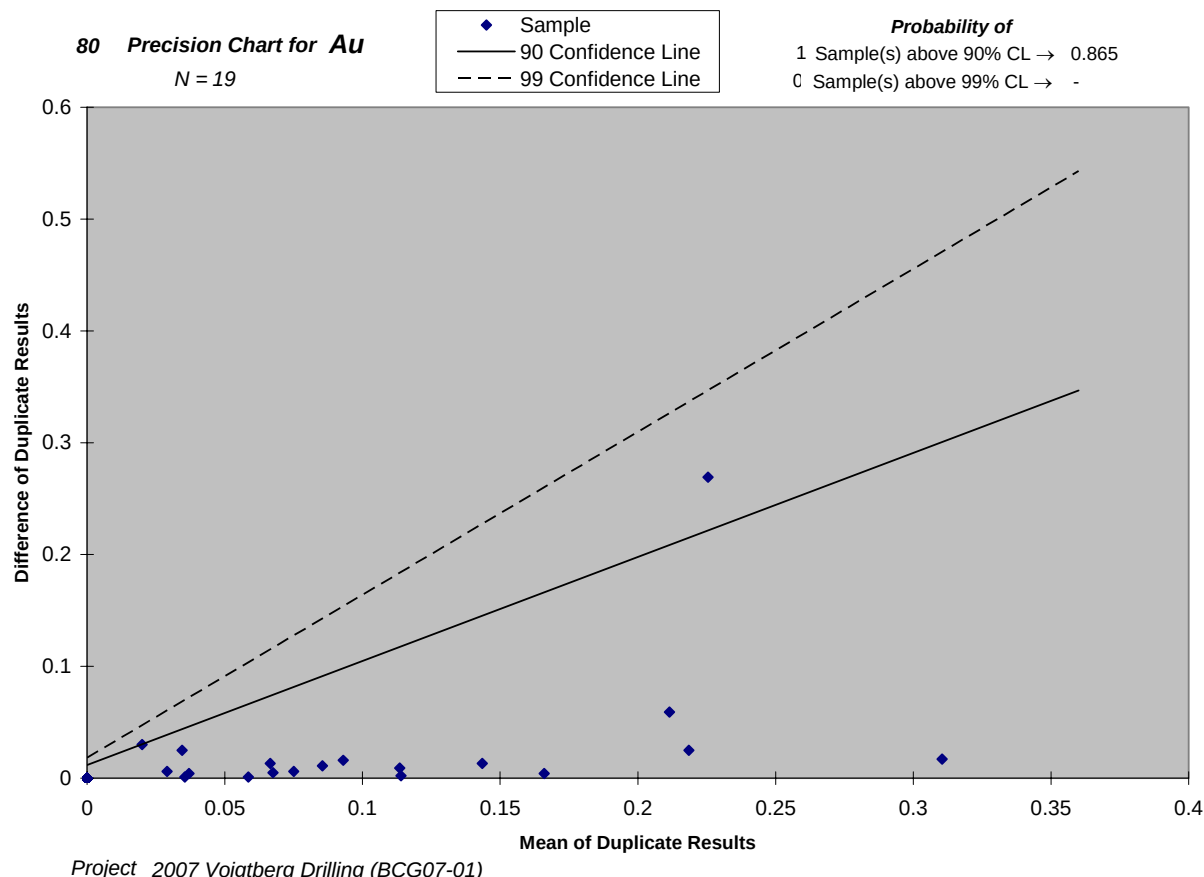


Chart 1: Graph illustrating Thompson and Howarth estimation of analytical precision for lab duplicates. The data points represent duplicate pairs, the solid line represents the 90% confidence line of the population, and the dashed line the 99% confidence line of the population (n=19 duplicate pairs). In this case, the probability is 86.5% that the difference in analytical results will exceed the 90% confidence line for 1 out of 19 sample pairs, implying that the Au analyses are most likely reproducible at a 80% precision level.

IV Standards

Standards are samples with known analytical values for certain elements of most interest. They are used to measure analytical precision in the laboratory and to confirm the laboratory's internal QA/QC procedures.

a. Core Standards

Three standards were inserted into the drill core sample stream. The standard used was CU130, supplied by WCM Minerals, with accepted values of 0.44% Cu, 0.074% Mo, 36 g/tonne Ag and 0.93 g/tonne Au. Statistical analysis would be meaningless with such a small data set, but the three standards returned 0.435-0.458% Cu, 0.0621-0.0645% Mo, 38.7-39.8 g/tonne Ag and 0.91-1.015 g/tonne Au. Although no rigorous conclusions can be drawn, it appears that Cu and Au analyses conform well to the accepted values for the standard, but Ag values may be ~10% high and Mo values ~15% low.

V Laboratory Quality Control / Quality Assurance

ALS Chemex Laboratories is ISO 9001:2000 certified and maintain an in-house quality control / quality assurance program utilizing blanks, duplicates and standards. Prior to certifying analytical certificates, ALS Chemex must assure themselves that their QA/QC samples are within acceptable limits.

VI Conclusions

- No tampering occurred with the Voigtberg samples en route to the laboratory.
- Low analytical results for soil and core blank samples indicate no contamination in the laboratory or en route to it.
- For soil samples, field duplicates show that analytical values are reproducible for Au and Mo at the 40% precision level and for the remaining elements of interest at the 20% precision level. This means that there is little inherent variability in metal content between two soil samples taken at the same site.
- Core duplicate samples show that most elements of interest are reproducible at the 20% precision level, but Pb (40%), Au (80%) and Zn (80%) are more variable. In other words, there could be significant differences between the metal contents of each half of split core for Pb, Au and Zn. Larger sample size could produce more reliable analyses for these three elements.
- Too few standards were inserted in the core sample sequence to draw any statistically meaning conclusions. However, it appears that Au and Cu analyses check well against the accepted values for the standard, but that Ag values may be ~10% high and Mo values ~15% low.
- By finalizing their analytical certificates, ALS Chemex confirms that their internal QA/QC sampling convinced them that contamination, reproducibility and accuracy are within acceptable limits within the laboratory.

Appendix I: Compact Disc

Report text, geochemical and drill databases, geophysical files, drafting and plot files, photographs

Appendix J: Geologist's Certificate

GEOLOGIST'S CERTIFICATE

Rory Kutluoglu, B.Sc.
700-700 W Pender St.
Vancouver, B. C., Canada
V6C 1G8
roryk@equityeng.bc.ca

I, Rory Kutluoglu, do hereby certify:

THAT I am a Geoscientist employed by Equity Engineering Ltd., with offices at #700-700 West Pender Street in the City of Vancouver, in the Province of British Columbia.

THAT I am a graduate of Lakehead University (2004) with a Bachelor of Science degree in Geology, and I have practiced my profession continuously since 2003.

THAT I am presently a Consulting Geologist and have been so since May 2006.

THAT this report is based on publicly-available reports and maps and on fieldwork carried out under my direction from August to September 2007.

THAT since 2003 I have been involved in mineral exploration for diamonds, gold, silver, copper, lead, nickel, PGE's, uranium and zinc in Canada and the United States of America.

Dated in Vancouver, British Columbia, this 4th day of February, 2008.



Rory Kutluoglu, B.Sc.

Appendix K: Analytical Certificates



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: EQUITY ENGINEERING LTD.
700 - 700 WEST PENDER ST.
VANCOUVER BC V6C 1G8

Page: 1
Finalized Date: 13-OCT-2007
This copy reported on 9-NOV-2007
Account: EIABCG

CERTIFICATE VA07103900

Project: Voigtberg

P.O. No.: BCG07-01

This report is for 2 Soil samples submitted to our lab in Vancouver, BC, Canada on 12-SEP-2007.

The following have access to data associated with this certificate:

HENRY AWMACK
QUITY ENGINEERING GENERA

ANDREW BROWN
RORY KUTLUOGLU

BRIAN FOWLER
FREEMAN SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: EQUITY ENGINEERING LTD.
ATTN: EQUITY ENGINEERING GENERAL
700 - 700 WEST PENDER ST.
VANCOUVER BC V6C 1G8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: EQUITY ENGINEERING LTD.

700 - 700 WEST PENDER ST.

VANCOUVER BC V6C 1G8

Page: 2 - A

Total # Pages: 2 (A - C)

Finalized Date: 13-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07103900

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
202544		0.56	0.138	1.5	1.15	99	<10	320	2.4	<2	0.91	<0.5	33	10	123	7.92
E841758		0.56	<0.005	0.3	2.10	15	<10	70	<0.5	<2	3.63	0.7	14	32	60	3.92

Comments: **CORRECTED COPY for PO #**



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: EQUITY ENGINEERING LTD.
700 - 700 WEST PENDER ST.
VANCOUVER BC V6C 1G8

Page: 2 - B
Total # Pages: 2 (A - C)
Finalized Date: 13-OCT-2007
Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07103900

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
202544		<10	<1	0.15	40	0.20	1990	5	0.02	26	3240	38	0.25	4	32	78
E841758		10	<1	0.04	10	1.44	765	1	0.04	28	1250	10	0.47	<2	8	94

Comments: **CORRECTED COPY for PO #**



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: EQUITY ENGINEERING LTD.
700 - 700 WEST PENDER ST.
VANCOUVER BC V6C 1G8

Page: 2 - C
Total # Pages: 2 (A - C)
Finalized Date: 13-OCT-2007
Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07103900

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
202544		<20	0.05	<10	<10	84	<10	99
E841758		<20	0.16	<10	<10	108	<10	98

Comments: **CORRECTED COPY for PO #**



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: EQUITY ENGINEERING LTD.

700 - 700 PENDER ST

VANCOUVER BC V6C 1G8

Page: 1

Finalized Date: 13-OCT-2007

Account: EIABCG

CERTIFICATE VA07103900

Project: Voigtberg

P.O. No.: BCG07-03

This report is for 2 Soil samples submitted to our lab in Vancouver, BC, Canada on 12-SEP-2007.

The following have access to data associated with this certificate:

HENRY AWMACK
RORY KUTLUOGLU

A BROWN
FREEMAN SMITH

QUITY ENGINEERING GENERAL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: EQUITY ENGINEERING LTD.
ATTN: EQUITY ENGINEERING GENERAL
700 - 700 PENDER ST
VANCOUVER BC V6C 1G8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A

Total # Pages: 2 (A - C)

Finalized Date: 13-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07103900

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
202544		0.56	0.138	1.5	1.15	99	<10	320	2.4	<2	0.91	<0.5	33	10	123	7.92
E841758		0.56	<0.005	0.3	2.10	15	<10	70	<0.5	<2	3.63	0.7	14	32	60	3.92



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Page: 2 - B

Total # Pages: 2 (A - C)

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Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07103900

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
202544		<10	<1	0.15	40	0.20	1990	5	0.02	26	3240	38	0.25	4	32	78
E841758		10	<1	0.04	10	1.44	765	1	0.04	28	1250	10	0.47	<2	8	94



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Page: 2 - C

Total # Pages: 2 (A - C)

Finalized Date: 13-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07103900

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
202544		<20	0.05	<10	<10	84	<10	99
E841758		<20	0.16	<10	<10	108	<10	98



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Page: 1
Finalized Date: 13-OCT-2007
This copy reported on 17-OCT-2007
Account: EIARG

CERTIFICATE TR07097567

Project: Voightberg

P.O. No.: BCG07-01

This report is for 109 Soil samples submitted to our lab in Terrace, BC, Canada on 4-SEP-2007.

The following have access to data associated with this certificate:

EQUITY ENGINEERING GENERA

RORY KUTLUOGLU

MICHAEL SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS41	51 anal. aqua regia ICPMS
Au-AA23	Au 30g FA-AA finish AAS

To: EQUITY ENGINEERING LTD.
ATTN: EQUITY ENGINEERING GENERAL
700 - 700 W. PENDER STREET
VANCOUVER BC V6C 1G8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A
Total # Pages: 4 (A - D)
Finalized Date: 13-OCT-2007
Account: EIARG

Project: Voightberg

CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
202662		0.26	0.075	0.75	1.4	230	<0.2	<10	590	2.51	0.42	0.35	0.5	93.7	92.9	3
202663		0.38	0.153	1.42	1.27	167.5	<0.2	<10	390	1.6	0.71	0.2	0.54	126.5	46.6	4
202664		0.52	0.069	1.27	1.36	176.5	<0.2	<10	810	2.25	0.68	0.5	0.8	81.9	69.9	2
202665		0.32	0.053	0.58	2.44	128.5	<0.2	<10	340	2.22	0.42	0.19	0.25	65.7	39.4	5
202666		0.24	0.108	1.08	1.2	166.5	<0.2	<10	590	1.46	2.78	0.25	0.66	130.5	36.8	4
202667		0.42	0.072	0.75	1.32	138	<0.2	<10	870	1.85	0.3	0.51	0.66	71	51.1	2
202668		0.52	0.115	1.08	1.13	181.5	<0.2	<10	580	1.77	0.42	0.35	0.8	78.8	41.9	4
202669		0.50	0.234	1.34	0.99	369	0.3	<10	620	1.47	0.48	0.15	1.31	117.5	69.8	2
202670		0.48	0.183	1.35	0.79	243	0.2	<10	660	1.26	0.6	0.17	1.06	101	44.9	2
202671		0.50	0.202	1.29	0.71	234	0.2	<10	480	1.14	0.33	0.38	0.83	83.3	37.1	3
202672		0.32	0.345	1.45	0.71	240	0.3	<10	510	1.03	0.36	0.26	0.64	92.9	35.9	3
202673		0.36	0.214	1.13	0.91	234	0.2	<10	370	1.24	0.27	0.24	0.66	77	33	13
202674		0.28	0.196	1.26	0.98	232	0.4	<10	390	1.55	0.28	0.25	0.68	84.8	34.7	12
202675		0.26	0.112	0.59	1.07	177	<0.2	<10	400	1.76	0.21	0.15	0.36	81.4	37.4	13
202676		0.18	0.066	0.57	2.1	82.6	<0.2	<10	200	1.67	0.24	0.04	0.14	60	17.7	17
202677		0.28	0.138	0.34	2.49	59.5	<0.2	<10	140	1.54	0.14	0.19	0.35	53.1	21.9	22
202679		0.40	0.252	2.15	0.97	188.5	0.2	<10	640	1.35	0.19	0.47	1.3	87.4	34.3	6
202680		0.30	0.122	1.95	0.9	102.5	<0.2	<10	200	0.93	0.25	0.24	0.56	49	38.2	6
202681		0.36	0.016	4.65	0.31	108.5	<0.2	<10	210	0.29	0.07	0.12	0.1	20.8	4.6	<1
202682		0.32	0.035	8.38	0.34	88.8	<0.2	<10	170	0.45	0.22	0.13	1.68	19.05	6.4	1
202683		0.50	0.076	3.25	0.66	151	<0.2	<10	110	0.42	0.33	0.2	0.09	23.1	8.2	3
202684		0.38	0.230	1.13	0.65	159.5	0.2	<10	250	0.32	0.65	0.23	0.08	17.4	5.8	5
202685		0.32	0.326	1.31	0.64	200	0.3	<10	290	0.28	0.73	0.21	0.14	15.25	5.6	6
202686		0.48	0.165	1.15	1.03	135.5	<0.2	<10	150	0.69	0.51	0.51	0.34	22.1	20.1	6
202687		0.44	0.025	0.45	2.81	14.2	<0.2	<10	340	0.59	0.08	4.1	0.19	24	25.2	13
202688		0.30	0.021	0.17	2.58	10.3	<0.2	<10	300	0.61	0.07	4.05	0.2	22.9	25.2	11
202689		0.34	0.020	0.42	0.93	22.2	<0.2	<10	30	1.58	0.43	2.77	1.32	25.4	20.8	7
202690		0.44	0.034	0.16	2.44	8.4	<0.2	<10	280	0.86	0.09	4.56	0.24	29.7	22.3	15
202691		0.38	0.018	0.21	2.32	11.8	<0.2	<10	340	1.1	0.13	4.3	0.16	36.6	27.6	11
202692		0.40	0.005	0.12	2.31	5.7	<0.2	<10	400	2.34	0.12	1.63	0.1	52.9	37	5
202693		0.40	<0.005	0.12	1.39	10.3	<0.2	<10	410	2.21	0.13	1.04	0.49	67.1	32.5	6
202694		0.36	<0.005	0.25	0.73	12.6	<0.2	<10	280	2.41	0.12	1.48	0.19	55.7	24.7	2
202695		0.46	<0.005	0.04	1.2	4.5	<0.2	<10	270	1.74	0.07	1.65	0.18	41.7	24.3	5
202696		0.54	<0.005	0.22	0.76	17.3	<0.2	<10	390	1.89	0.16	0.9	0.77	49.4	35.7	4
202697		0.34	<0.005	0.06	1.37	3.3	<0.2	<10	660	2.76	0.11	0.57	0.14	53.8	23.5	4
202698		0.08	<0.005	0.01	0.01	<0.1	<0.2	<10	10	<0.05	<0.01	0.01	0.01	1.18	0.1	<1
202699		0.36	0.011	0.38	1.63	33.8	<0.2	<10	670	2.62	0.21	0.24	0.68	93	36.4	19
202700		0.36	0.007	0.41	0.98	64	<0.2	<10	410	2.85	0.19	0.61	1.51	129.5	51.8	13
202701		0.38	0.010	0.21	1.89	19.7	<0.2	<10	310	3.53	0.16	0.25	0.25	102.5	43.2	8
202702		0.36	0.006	0.17	1.57	18.2	<0.2	<10	350	2.56	0.21	0.27	0.52	60.1	31.5	8

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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Page: 2 - B
Total # Pages: 4 (A - D)
Finalized Date: 13-OCT-2007
Account: EIARG

Project: Voightberg

CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
202662		10.3	310	9.5	3.64	0.08	0.02	0.25	0.065	0.3	53.1	4.6	0.29	5760	51.4
202663		2.7	263	8.49	3.24	0.07	0.04	0.41	0.067	0.23	102	3.8	0.19	3270	56
202664		7.62	219	8.86	3.94	0.08	0.02	0.24	0.067	0.35	44.5	5.4	0.3	5830	35
202665		6.67	169.5	7.74	6.66	0.06	0.08	0.14	0.068	0.27	42.4	9.2	0.42	3750	22.7
202666		2.32	239	8.01	3.22	0.07	0.03	0.39	0.058	0.26	125.5	4.8	0.2	2320	58.7
202667		5.48	233	8.22	3.76	0.07	0.02	0.29	0.058	0.34	47.6	4.9	0.27	4190	39.1
202668		3.55	201	8.11	3.38	0.06	0.02	0.22	0.058	0.3	62.7	3.9	0.2	3020	58.5
202669		1.19	366	12.55	2.8	0.08	0.03	0.24	0.085	0.31	78.1	2.8	0.13	6660	65.3
202670		1.53	249	9.28	2.5	0.07	0.02	0.37	0.061	0.3	89	2.4	0.12	2930	63.1
202671		1.03	210	8.66	2.72	0.06	0.03	0.52	0.061	0.29	66	3.3	0.13	2330	50.6
202672		0.7	204	8.43	2.71	0.06	0.03	0.33	0.057	0.22	80.6	3.2	0.15	2430	54.1
202673		0.88	184	8.14	3.42	0.06	0.04	0.45	0.06	0.18	57	3.2	0.18	1955	36.4
202674		1.03	189	8.27	3.82	0.07	0.05	0.45	0.066	0.2	64.2	3.6	0.18	2000	39
202675		1.79	185.5	7.83	3.32	0.06	0.02	0.35	0.07	0.26	56.1	3	0.13	2000	22.7
202676		2.42	89.3	5.85	9.41	<0.05	0.03	0.1	0.075	0.13	40.2	7.2	0.23	1185	18.85
202677		3.75	140.5	6.6	8.68	<0.05	0.03	0.17	0.087	0.12	30	10.7	0.34	1045	15.6
202679		0.58	152.5	7.76	3.14	0.07	0.05	0.68	0.06	0.14	63.1	2.8	0.12	3430	33.2
202680		1.95	229	8.93	3.01	0.05	0.06	0.77	0.051	0.22	26.8	2.3	0.22	1505	27.5
202681		3.11	40.1	5.8	1.12	<0.05	0.04	1.37	0.029	0.54	14.2	0.7	0.03	142	18.55
202682		1.94	49.9	4.64	1.2	<0.05	0.06	3.74	0.026	0.44	13.6	0.8	0.03	199	25.2
202683		1.69	84.8	8.41	2.77	0.05	0.04	0.85	0.043	0.65	15.7	2.2	0.21	275	15.35
202684		0.93	157	7.21	2.9	0.06	0.08	0.65	0.039	0.33	11.1	2.3	0.27	217	13.1
202685		1.02	181.5	7.98	2.82	0.07	0.08	0.72	0.041	0.25	9.6	2.6	0.3	207	17.1
202686		1.5	264	7.87	3.97	0.05	0.12	0.24	0.047	0.18	12.7	4.9	0.47	809	8.22
202687		1.76	106	6.05	10.05	0.08	0.39	0.05	0.042	0.14	13.3	15.4	1.89	1370	2.05
202688		1.59	103	5.93	9.22	0.1	0.4	0.04	0.042	0.13	12.1	14.5	1.9	1310	3.96
202689		1.62	250	5.35	2.65	0.06	0.23	0.08	0.031	0.22	14.9	4.3	0.45	784	36.5
202690		1.43	81.1	5.36	9.01	0.08	0.42	0.09	0.041	0.19	16.1	13.1	1.69	1260	3.13
202691		1.71	129.5	5.58	8.92	0.06	0.25	0.05	0.041	0.22	19	14.7	1.53	1235	2.7
202692		4.4	247	5.28	6.18	0.05	0.06	0.03	0.04	0.29	22.8	14	0.92	1905	2.11
202693		2.71	177.5	5.98	4.35	0.05	0.07	0.05	0.041	0.26	35.3	7.3	0.46	2570	10.15
202694		2.5	83	4.04	2.07	<0.05	0.07	0.06	0.033	0.27	28.8	2.3	0.14	1690	6.39
202695		3.4	74.5	4.6	3.22	<0.05	0.04	0.12	0.038	0.31	20.2	4.7	0.27	1950	4.05
202696		2.65	114	5.7	1.98	0.05	0.02	0.05	0.047	0.23	22.6	1.9	0.16	2640	7.32
202697		2.19	95.4	4.98	4.5	0.1	0.03	0.03	0.059	0.21	29.3	3.9	0.15	2400	2.03
202698		<0.05	0.9	0.02	<0.05	<0.05	0.02	<0.01	<0.005	<0.01	0.6	0.1	<0.01	7	<0.05
202699		2.17	306	7.21	5.67	0.13	0.04	0.06	0.066	0.21	46.6	6.9	0.36	5930	20.3
202700		1.5	90.3	10.5	3.66	0.16	0.08	0.1	0.073	0.27	66.3	4.5	0.2	4640	17.25
202701		2.83	204	7.09	6.32	0.12	0.04	0.05	0.056	0.18	42.1	8.8	0.26	5330	17.45
202702		1.82	134	6.04	5.39	0.1	0.03	0.07	0.063	0.21	27.9	4.8	0.19	2660	9.28

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
202662		0.56	24.3	4570	102	19.8	<0.001	0.16	3.97	18.3	2.3	0.4	138	<0.01	0.53
202663		0.9	16	3470	104.5	17.4	<0.001	0.18	6.01	12.3	2.4	0.4	187	0.01	0.94
202664		0.88	23.4	4180	241	19.4	<0.001	0.23	4.77	18.2	1.8	0.6	181.5	<0.01	0.45
202665		1.19	13.6	3560	66.5	25.5	<0.001	0.15	3.25	10.2	1.5	0.7	102.5	0.01	0.39
202666		0.4	12.2	3460	224	16.3	<0.001	0.21	5.21	9.1	2.7	0.3	168.5	<0.01	0.79
202667		0.95	19.8	3740	67.8	19.5	<0.001	0.28	4.62	14.1	1.5	0.4	216	<0.01	0.49
202668		0.88	16.4	3850	96.1	16.7	<0.001	0.28	6.18	12	1.8	0.5	194.5	<0.01	0.75
202669		1.11	22	5100	119	16.2	<0.001	0.44	9.61	20.4	3	0.4	284	0.01	1.16
202670		0.74	16.5	3850	110.5	15	<0.001	0.35	8.29	16.3	2.1	0.3	242	<0.01	1.04
202671		1.23	15.9	3310	80.6	14.6	<0.001	0.38	8.06	14.3	2	0.5	307	0.01	0.99
202672		1.55	14.2	3300	91.7	11.4	<0.001	0.38	6.92	13.2	2.4	0.5	201	0.01	1.41
202673		2.28	20.9	2810	68.6	11.3	<0.001	0.22	6.8	16.8	1.8	0.7	129	0.01	0.8
202674		2.59	20.9	2900	70.6	13	<0.001	0.23	7.14	17.8	2	0.8	140.5	0.01	0.89
202675		1.66	21.9	3090	54	17.5	<0.001	0.29	6.16	20	1.8	0.6	158.5	<0.01	0.73
202676		3.39	10.9	2140	38.9	17.6	<0.001	0.16	2.76	2.4	1.1	2	63.5	0.01	0.34
202677		4.5	14	2920	27.2	15.7	<0.001	0.09	2.09	9.2	1.3	1.5	51.3	0.03	0.29
202679		1.36	17	3910	66.9	13.3	<0.001	0.18	7.01	8.2	1.6	0.5	82.4	0.01	0.86
202680		0.21	15.3	3570	97.1	13.6	0.003	1.24	6.11	14	2.4	0.2	43.5	<0.01	0.72
202681		0.08	2.7	2670	243	16	0.008	1.19	5.85	5.2	1	0.2	165.5	<0.01	0.09
202682		0.06	3.1	1990	693	15	0.007	1.67	8.66	4.5	1.2	0.2	138.5	<0.01	0.22
202683		0.17	5	4060	165	17.9	0.01	1.53	4.31	5	4.3	0.3	229	<0.01	0.73
202684		0.14	5.5	2980	76.2	8.7	0.01	0.89	4.55	3.3	8.6	0.4	72.8	<0.01	1.26
202685		0.18	5.7	3060	82.1	7.7	0.015	0.8	5.12	3.4	10.1	0.5	53.5	<0.01	1.35
202686		0.26	13.2	2990	53.5	8.3	0.018	2.01	2.55	6.6	7.4	0.3	52.8	<0.01	1.2
202687		0.07	12.6	1850	11	7.5	0.002	0.61	0.58	10.5	1	0.4	98.1	<0.01	0.22
202688		0.08	11.4	1940	9.6	7	0.004	0.58	0.57	10.6	0.9	0.4	96	<0.01	0.07
202689		0.05	30.4	2180	68.1	9.9	0.038	4.25	0.65	4.6	9.1	0.2	408	<0.01	0.72
202690		0.07	13.1	1980	14.9	10.2	0.005	0.6	0.51	10.5	1.1	0.4	131	<0.01	0.11
202691		0.06	13.7	2600	18.6	11.8	0.005	0.66	0.47	10.6	1	0.4	173	<0.01	0.09
202692		<0.05	11	3350	21.7	17.6	<0.001	0.04	0.23	7.8	0.6	0.3	120.5	<0.01	0.06
202693		<0.05	14.7	2530	31.4	17.1	<0.001	0.17	0.37	9.3	0.8	0.2	88.2	<0.01	0.03
202694		<0.05	12.3	2060	39.4	14.7	<0.001	0.33	0.67	6.8	0.5	0.2	102.5	<0.01	0.01
202695		0.24	12.1	2270	13.8	19.4	<0.001	0.76	0.31	9	0.2	0.3	76.1	<0.01	<0.01
202696		0.14	19	2370	38.9	12.6	0.002	0.33	0.8	8.7	1.1	0.2	62.9	<0.01	0.03
202697		0.79	9.8	2120	13.4	16.1	<0.001	0.02	0.14	9.8	0.7	0.8	33	0.01	0.01
202698		<0.05	0.3	20	0.5	0.1	<0.001	0.01	<0.05	0.1	<0.2	<0.2	0.9	<0.01	<0.01
202699		0.69	30.7	1390	66.6	20.1	0.001	0.1	0.83	14.5	1.9	0.4	45.7	0.01	0.33
202700		0.17	32	3380	94.5	11.2	0.004	0.56	1.9	19.7	2.1	0.3	109.5	0.01	0.35
202701		1.21	18.5	2750	60.7	13.1	0.001	0.05	0.72	12.1	1.4	0.8	24.4	0.02	0.09
202702		1.91	21.4	2190	40.7	14.7	0.001	0.07	0.66	6.8	1.4	1	33.1	0.02	0.35

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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700 - 700 W. PENDER STREET
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Page: 2 - D
Total # Pages: 4 (A - D)
Finalized Date: 13-OCT-2007
Account: EIARG

Project: Voightberg

CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2
								0.5
202662		0.008	2.24	1.99	101	10.4	25.6	115
202663		0.008	1.41	2.18	95	3.02	26	132
202664		0.016	3.02	1.37	110	9.32	28.7	158
202665		0.017	1.37	1.27	126	3.39	21.1	126
202666		0.008	1.19	2.74	109	3.24	23.9	120
202667		0.013	2.04	1.22	99	5.39	24	133
202668		0.018	2.32	1.55	97	9.53	20.7	183
202669		0.02	4.78	2.12	107	3.78	30.7	265
202670		0.014	2.65	2.36	81	2.84	22.1	213
202671		0.018	2.49	1.62	73	2.61	20.3	161
202672		0.024	1.56	3.12	71	1.47	20.2	146
202673		0.038	2.42	4.69	84	2.25	24.5	147
202674		0.039	2.41	4.94	85	2.32	26.4	152
202675		0.009	1.89	1.36	82	1.99	25.5	119
202676		0.014	1.03	1.58	83	0.88	14.85	85
202677		0.036	0.7	1.33	99	0.43	13	97
202679		0.009	1.34	2.48	76	0.98	34.5	224
202680		0.006	3.59	2.48	65	0.57	14.45	296
202681		<0.005	9.32	0.45	35	0.3	3.61	95
202682		<0.005	8.01	0.31	38	2.89	2.94	357
202683		0.006	7.99	0.4	67	2.61	5.03	72
202684		0.008	2.23	0.82	61	6.36	5.45	53
202685		0.013	2.36	1.06	68	9.5	5	56
202686		0.019	1.57	0.63	63	3.57	12.2	120
202687		0.144	0.15	0.59	145	0.26	15	87
202688		0.156	0.11	0.57	147	0.26	14.65	85
202689		0.006	0.27	2.04	41	0.28	13.4	304
202690		0.139	0.15	0.6	133	0.28	14.4	86
202691		0.083	0.17	0.51	127	0.24	16.05	83
202692		<0.005	0.36	0.3	71	0.05	17.25	84
202693		0.005	0.41	0.79	60	0.12	20.1	137
202694		<0.005	0.3	0.85	27	0.07	15.05	68
202695		0.009	0.22	0.4	48	0.05	13.6	55
202696		0.006	0.35	0.73	33	0.07	18.85	203
202697		0.01	0.14	0.57	73	0.09	23	64
202698		<0.005	<0.02	0.09	<1	<0.05	0.7	3
202699		0.015	0.68	1.1	61	0.18	31.9	123
202700		0.01	0.39	1.46	58	0.11	28.3	225
202701		0.009	0.52	1.71	67	0.21	24.4	107
202702		0.019	0.41	1.13	52	0.17	18.2	159

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 3 - A
Total # Pages: 4 (A - D)
Finalized Date: 13-OCT-2007
Account: EIARG

Project: Voightberg

CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
202703		0.36	0.009	0.15	2.37	19.2	<0.2	<10	220	2.91	0.24	0.18	0.37	68.5	28	10
202704		0.32	<0.005	0.23	2.08	13	<0.2	<10	130	1.84	0.2	0.08	0.21	30.8	10.5	10
202705		0.32	<0.005	0.33	2.06	12.3	<0.2	<10	110	1.44	0.18	0.04	0.23	29.8	9.6	11
202706		0.40	<0.005	0.2	2.65	13.2	<0.2	<10	150	1.83	0.22	0.08	0.2	63.5	15.9	11
202707		0.46	<0.005	0.07	1.75	5	<0.2	<10	490	1.88	0.11	0.57	0.16	52.9	23	8
202708		0.32	0.007	0.06	1.81	7.3	<0.2	<10	440	2.14	0.13	0.57	0.22	73	22.6	6
202709		0.44	0.007	0.04	2.61	5.7	<0.2	<10	380	1.85	0.11	0.48	0.21	57.3	25.7	9
202710		0.40	<0.005	0.09	1.68	7.5	<0.2	<10	520	1.68	0.12	0.76	0.34	61.4	26.2	15
202711		0.36	<0.005	0.06	2.84	5.4	<0.2	<10	390	1.88	0.12	0.37	0.13	50.2	23.5	13
202712		0.34	<0.005	0.05	2.8	5.3	<0.2	<10	400	1.97	0.11	0.36	0.14	52.5	24.1	12
202713		0.30	0.007	0.07	1.59	4.7	<0.2	<10	480	1.63	0.1	2.24	0.18	50.6	26.9	8
202714		0.36	0.018	0.06	3.49	7	<0.2	<10	210	1.02	0.07	0.37	0.25	33	25	93
202715		0.34	<0.005	0.06	2.83	7.5	<0.2	<10	200	1.23	0.1	0.38	0.19	40.8	16.7	76
202716		0.48	<0.005	0.04	2.64	10.2	<0.2	<10	200	1.2	0.09	0.6	0.33	51.4	18.9	24
202717		0.36	0.009	0.21	2.12	22.3	<0.2	<10	240	1.26	0.11	0.44	0.67	46.3	28.6	55
202718		0.34	0.009	0.09	1.14	5.7	<0.2	<10	350	1.16	0.06	0.64	0.18	36.3	25.8	11
202719		0.60	0.005	0.44	1.96	24.4	<0.2	<10	320	1.42	0.11	0.31	1.82	52.8	27.2	21
202720		0.56	0.005	0.44	1.98	24.5	<0.2	<10	320	1.43	0.11	0.32	1.85	55.1	27.6	22
202721		0.34	<0.005	0.24	1.29	25.7	<0.2	<10	240	1.71	0.09	0.5	1.26	60.8	23.4	13
202722		0.36	0.007	0.33	1.71	38	<0.2	<10	270	1.92	0.11	0.21	0.68	76	22.8	10
202723		0.32	<0.005	0.13	2.49	14.2	<0.2	<10	160	1.75	0.2	0.11	0.17	53.5	13.9	16
202724		0.26	<0.005	0.08	2.52	9.5	<0.2	<10	150	1.59	0.14	0.11	0.21	44.5	15	19
202725		0.14	<0.005	0.22	1.3	4.1	<0.2	<10	280	1.02	0.07	0.16	0.39	18.05	12.3	10
202726		0.28	<0.005	0.08	2.72	10.7	<0.2	<10	560	2.04	0.08	0.52	0.22	68.2	28.3	17
202727		0.18	<0.005	0.19	1.41	7.5	<0.2	<10	270	1.24	0.08	0.33	0.33	17.15	25.8	15
202728		0.28	<0.005	0.12	2.65	8.3	<0.2	<10	220	1.36	0.07	0.07	0.15	19.1	11.5	18
202729		0.30	0.009	0.06	2.67	21.5	<0.2	<10	610	2.24	0.09	0.71	0.17	79.9	30.4	23
202730		0.22	<0.005	0.16	1.44	14.4	<0.2	<10	330	1.13	0.08	0.27	0.3	21.9	46.9	11
202731		0.26	0.006	0.07	2.25	20.4	<0.2	<10	250	1.49	0.08	0.37	0.1	27.6	15	17
202732		0.34	0.010	0.09	4.11	21.7	<0.2	<10	690	2.35	0.09	1.16	0.24	55.8	65.1	77
202733		0.34	<0.005	0.14	2.29	17.1	<0.2	<10	430	1.61	0.1	0.91	0.28	50.7	32.3	42
202734		0.32	0.005	0.06	2.78	18.2	<0.2	<10	310	1.53	0.07	0.37	0.22	52.1	28.2	21
202735		0.46	0.021	0.26	1.14	59.9	<0.2	<10	480	1.84	0.08	0.7	0.35	57.1	47.9	14
202737		0.48	0.005	0.11	1.94	25.4	<0.2	<10	300	1.81	0.11	0.32	0.15	49.7	22.3	14
202738		0.14	<0.005	0.15	0.92	14.5	<0.2	<10	280	0.94	0.07	0.39	0.36	11.95	13.1	10
202739		0.34	<0.005	0.1	0.94	54	<0.2	10	350	1.91	0.07	1.15	0.57	43.4	35.4	15
202740		0.18	<0.005	0.12	1.66	18.3	<0.2	<10	110	1.27	0.13	0.08	0.13	37.6	10.5	9
202741		0.52	0.016	0.09	1.04	25.2	<0.2	<10	350	2.06	0.15	0.48	0.18	78.2	23.5	5
202742		0.54	0.006	0.09	1.35	15.9	<0.2	<10	460	2.45	0.18	0.39	0.22	83.7	22.9	8
202743		0.50	<0.005	0.08	0.88	19	<0.2	<10	420	1.86	0.06	1.54	0.17	40.7	33.5	1

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 3 - B
Total # Pages: 4 (A - D)
Finalized Date: 13-OCT-2007
Account: EIARG

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CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
202703		1.99	166	6.77	8.98	0.1	0.06	0.04	0.063	0.16	30.4	8.8	0.32	2910	9.26
202704		1.13	77.1	4.94	9.53	0.06	0.03	0.08	0.052	0.11	16.1	5.4	0.14	1335	7.79
202705		1.26	77.5	4.58	9	0.06	0.03	0.06	0.052	0.11	15	5.3	0.17	994	8.93
202706		2.05	78.7	5.35	11.5	0.05	0.07	0.04	0.077	0.14	23.6	7.9	0.31	2060	7.5
202707		2.67	120	4.79	5.56	0.06	0.03	0.04	0.05	0.19	25.7	7	0.35	1960	2.77
202708		2.81	123	4.62	6.8	0.07	0.03	0.03	0.05	0.18	32.5	9.7	0.39	2260	2.9
202709		2.19	146	5.83	9.13	0.06	0.04	0.03	0.056	0.2	24	15.7	0.79	2160	1.82
202710		2.29	142.5	5.21	5.62	0.06	0.06	0.05	0.045	0.22	29.1	8.3	0.5	2120	2.71
202711		3.07	122.5	5.54	8.93	0.05	0.1	0.03	0.056	0.16	19.5	10.4	0.39	2060	2.98
202712		3.09	125	5.54	8.85	0.05	0.11	0.04	0.056	0.16	20	10.2	0.39	2150	2.91
202713		3.99	128	4.47	4.75	0.05	0.03	0.05	0.038	0.33	23.5	6.9	0.33	2300	2.95
202714		1.88	64.1	5.73	11.35	0.05	0.05	0.03	0.056	0.12	13.4	25.6	2.02	1350	1.8
202715		2.39	51.3	4.6	9.49	0.05	0.04	0.02	0.054	0.12	18.1	16.9	0.93	930	2.18
202716		2.9	53.4	4.79	8.34	0.06	0.09	0.1	0.058	0.11	25.4	12.8	0.58	1225	4.36
202717		3.26	104	6.5	5.71	0.06	0.08	0.31	0.072	0.12	18	10.4	0.62	1455	5.69
202718		2.34	86.4	5.64	3.49	0.06	0.04	0.06	0.04	0.21	14.7	4.8	0.26	1900	1.21
202719		2.82	89.5	5.82	6.26	0.06	0.03	0.27	0.061	0.15	21.1	10.2	0.53	2390	2.84
202720		2.92	88.8	5.88	6.37	0.06	0.03	0.31	0.063	0.15	21.6	10.2	0.53	2440	2.91
202721		2.47	69.9	5.25	3.95	0.06	0.03	0.18	0.05	0.18	30.3	5.5	0.29	2130	2.39
202722		2.87	88.9	5.96	4.72	0.07	0.04	0.7	0.054	0.14	32.4	5.4	0.24	2460	4.64
202723		2.75	73.8	5.59	11.15	0.06	0.07	0.09	0.072	0.11	23.5	9.5	0.34	1110	3.51
202724		2.91	60.7	4.28	8.03	0.05	0.09	0.15	0.058	0.11	17.8	10.3	0.37	1235	2.43
202725		6.69	29	2.62	6.08	<0.05	0.04	0.09	0.035	0.13	8.9	3.2	0.13	1620	2.47
202726		6.99	98	5.78	8.28	0.06	0.08	0.11	0.063	0.21	24.1	15.8	0.58	1795	1.68
202727		3.47	57.8	4.42	6.99	<0.05	0.04	0.08	0.042	0.17	6.8	4.1	0.23	4580	3.66
202728		6.24	62.9	4.3	8.46	<0.05	0.13	0.08	0.049	0.13	9.6	12	0.32	492	2.71
202729		5.45	128.5	6.53	8.08	0.07	0.08	0.13	0.064	0.18	31.4	13.8	0.59	1885	1.75
202730		3.87	66.3	4.76	5.25	<0.05	0.05	0.09	0.04	0.15	8.3	5	0.25	4460	3.59
202731		4.54	71.6	4.38	6.18	<0.05	0.1	0.11	0.048	0.11	13.1	8.8	0.3	629	2.51
202732		22.8	183	8.5	14.8	0.15	0.09	0.22	0.08	0.18	23.2	35.2	1.78	3290	1.36
202733		5.8	127	6.24	7.78	0.09	0.06	0.07	0.056	0.22	25.4	15.4	0.86	1825	4
202734		3.82	115	5.95	7.52	0.06	0.11	0.08	0.059	0.15	20.7	12.4	0.5	1370	2.55
202735		6.76	135.5	9.35	3.57	0.07	0.04	0.22	0.068	0.15	32.9	5	0.22	3270	4.78
202737		6.5	100.5	6.26	5.32	0.05	0.06	0.12	0.065	0.13	21.3	6.8	0.17	1590	2.6
202738		1.63	42	3.46	4.25	<0.05	0.03	0.15	0.033	0.12	5.8	2	0.11	1505	3.64
202739		5.19	130	7.64	2.43	0.06	0.03	0.4	0.066	0.24	20.6	1.8	0.16	1775	4.11
202740		3.15	47.7	4.47	5.6	<0.05	0.07	0.1	0.047	0.12	18.2	3.9	0.16	792	5.32
202741		5.26	65.2	5.3	3.41	0.07	0.06	0.08	0.051	0.16	47.5	2.9	0.18	2050	5.28
202742		4.53	77	5.34	5.34	0.08	0.14	0.07	0.061	0.17	44.2	5.9	0.23	2500	3.46
202743		5.1	150.5	6.77	1.87	0.05	0.04	0.08	0.058	0.25	19	2.3	0.12	1805	2

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 3 - C
Total # Pages: 4 (A - D)
Finalized Date: 13-OCT-2007
Account: EIARG

Project: Voightberg

CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
202703		4.18	15.5	2040	53.4	18.8	0.001	0.05	0.55	4.6	2.1	1.7	21.3	0.07	0.5
202704		4.4	8.3	1770	26.8	15.3	<0.001	0.14	0.56	1	1.6	2	22.8	0.05	0.33
202705		2.91	8.4	2150	26.7	23.3	<0.001	0.11	0.51	0.8	1.3	1.8	13.1	0.01	0.14
202706		4.65	10.4	2020	31.5	24.3	0.001	0.05	0.57	2.2	0.9	2.6	10	0.06	0.04
202707		0.91	11.8	2560	16.1	17	0.001	0.01	0.29	7.2	0.6	0.7	42.8	0.01	0.02
202708		1.26	9.9	2460	19.9	15.2	<0.001	0.01	0.36	5.1	0.7	0.9	38	0.01	0.05
202709		0.59	11.9	2470	16.9	16.3	0.001	0.01	0.26	7	0.5	0.6	32.4	<0.01	0.04
202710		0.45	20	2790	21.5	13.8	0.001	0.01	0.47	8.8	0.8	0.5	49.7	<0.01	0.04
202711		1.03	12.5	2540	18.8	21.7	0.001	0.04	0.34	4.6	0.6	0.8	27.4	0.01	0.03
202712		1.04	12.3	2540	18.2	21.5	0.001	0.03	0.34	4.8	0.6	0.8	27.9	0.01	0.03
202713		0.11	14.8	2820	17.2	20	0.001	0.03	0.3	8.2	0.4	0.3	88.4	<0.01	0.02
202714		0.97	60.8	1370	10	11.1	0.001	0.01	0.47	10.7	0.8	0.7	20.5	<0.01	0.02
202715		1.76	57.9	1590	10.4	13.8	0.001	0.02	0.47	6.4	0.6	1.2	17.7	0.01	0.02
202716		1.43	29.2	1700	10.6	13.4	0.001	0.02	0.66	6.7	0.9	0.9	21.7	0.01	0.02
202717		1.05	79.4	1680	14.7	11.9	0.001	0.02	1.59	12.3	2.9	0.6	47.4	0.01	0.05
202718		0.49	16.2	2330	10.2	12.2	<0.001	<0.01	0.45	8.1	0.7	0.5	56.9	0.01	0.02
202719		1.01	23.8	1940	346	12.8	0.001	0.03	1.22	8.4	1.2	0.8	24.3	0.01	0.03
202720		1.08	23.7	1960	368	13	0.001	0.02	1.24	8.3	1.2	0.8	24	0.01	0.02
202721		0.52	18.5	2000	40.7	12.3	0.001	0.05	1.05	7.7	0.9	0.5	35.8	0.01	0.02
202722		1.03	16.8	1850	82.3	14.6	0.001	0.06	1.74	6.1	1.3	0.7	25.5	0.01	0.02
202723		3.5	16.1	2200	22.6	18	0.001	0.06	0.69	2	0.9	2.3	11.8	0.04	0.02
202724		2.12	15.9	1910	18.5	17.2	0.001	0.05	0.57	2.5	1	1.3	10.6	0.02	0.02
202725		1.25	6.6	2280	8.8	18.5	<0.001	0.15	0.35	0.5	0.5	1.3	19.3	0.01	0.02
202726		0.95	17.4	3220	22.1	25.6	<0.001	0.03	0.54	7.8	0.8	0.9	64.9	0.01	0.02
202727		0.72	9.1	2670	13.9	27.4	<0.001	0.14	0.52	0.8	0.8	1	28	0.01	0.03
202728		2.02	11.3	2570	12.9	22.5	<0.001	0.13	0.46	1.9	0.6	1	31	0.03	0.02
202729		0.91	22.7	2460	16.7	21.4	0.001	0.03	0.71	18.7	1.1	0.6	74.7	0.01	0.03
202730		0.6	9.7	2820	17.2	25.2	<0.001	0.12	0.87	2.1	0.6	0.5	28.2	0.01	0.03
202731		1.09	12.5	2250	14.1	15.7	<0.001	0.05	1.12	6.1	0.8	0.6	28.1	0.01	0.02
202732		0.08	40.4	3620	18.6	21.2	<0.001	<0.01	0.77	35.9	0.5	0.7	193	<0.01	0.04
202733		0.54	29.1	2980	19.3	15.8	0.001	0.02	0.96	15.6	1.4	0.5	74	<0.01	0.03
202734		0.64	19.5	2340	13.9	18.4	0.001	0.02	0.84	11.4	2	0.5	45	<0.01	0.03
202735		0.59	33.5	2620	37.8	12.8	0.001	0.01	3.78	26.4	1.4	0.4	77.7	0.01	0.03
202737		0.82	15.6	2740	17.5	22.1	<0.001	0.03	1.26	7.8	1.2	0.8	37	0.01	0.03
202738		1.07	9	2320	10.6	14.1	<0.001	0.13	0.93	1.1	0.6	0.9	29.8	0.01	0.02
202739		0.33	31.2	3610	17.8	14.6	0.001	0.02	2.63	24.1	1.4	0.3	121	0.01	0.04
202740		1.32	9	1810	22.6	18.4	<0.001	0.08	0.88	1.2	0.8	0.9	11.6	0.02	0.02
202741		1.47	13.7	1770	33.3	13.3	0.001	0.01	0.71	9.1	0.8	0.6	32.9	0.02	0.02
202742		1.8	15.3	1880	35.3	15.9	<0.001	0.01	0.69	8.9	0.9	1.2	28.4	0.02	0.03
202743		0.11	15	4240	17	15.2	0.001	0.08	0.38	19.9	0.6	0.2	132	<0.01	0.01

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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Page: 3 - D
Total # Pages: 4 (A - D)
Finalized Date: 13-OCT-2007
Account: EIARG

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CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
202703		0.026	0.31	1.08	74	0.3	17	131	2.2
202704		0.029	0.19	1.08	59	0.19	6.92	86	2.2
202705		0.012	0.22	1.13	62	0.14	6.99	97	1.2
202706		0.023	0.25	1.16	64	0.26	13.65	116	2.8
202707		0.02	0.22	0.55	69	0.1	18.9	78	0.7
202708		0.018	0.27	0.58	59	0.1	20.2	96	0.8
202709		0.012	0.22	0.42	98	0.07	14.25	101	1.2
202710		0.015	0.24	0.64	75	0.07	19.35	98	3.8
202711		0.015	0.32	0.6	97	0.09	13	81	2.9
202712		0.015	0.32	0.59	96	0.09	13.35	80	3.2
202713		0.007	0.23	0.44	63	0.05	15.6	73	0.9
202714		0.017	0.15	0.77	119	0.06	14.5	97	2.1
202715		0.022	0.18	1.08	80	0.09	18.4	87	1
202716		0.01	0.3	1.14	70	0.08	30	92	2.6
202717		0.005	0.53	0.91	72	0.12	29.6	144	2.4
202718		0.027	0.11	0.89	79	0.22	19.3	66	1.2
202719		0.02	0.29	0.81	76	0.12	19.6	358	0.6
202720		0.021	0.31	0.84	78	0.14	19.85	379	0.7
202721		0.008	0.31	1.07	63	0.11	19.55	228	0.6
202722		0.007	1.06	1.09	55	0.12	23.8	176	0.8
202723		0.018	0.34	1.24	66	0.23	16.1	134	2.4
202724		0.013	0.28	0.94	70	0.16	13.85	107	3.1
202725		0.008	0.16	1.01	58	0.15	5.01	54	1.2
202726		0.016	0.42	0.75	129	0.17	13.3	93	2
202727		0.007	0.21	0.74	97	0.14	3.47	95	0.8
202728		0.009	0.36	0.76	107	0.16	4.46	76	4.4
202729		0.005	0.33	0.76	132	0.19	25.2	87	2.3
202730		0.005	0.26	0.58	93	0.15	4.94	72	1.2
202731		0.006	0.44	0.54	98	0.15	11.35	54	2.8
202732		0.016	0.87	0.63	265	0.36	20.6	109	3.2
202733		0.021	0.32	0.62	114	0.23	21.1	107	2.3
202734		0.006	0.3	0.6	112	0.14	17.95	101	3.3
202735		0.006	0.31	0.69	130	0.28	41.6	119	1.1
202737		0.006	0.45	0.86	106	0.22	21.9	103	1.4
202738		<0.005	0.19	0.57	64	0.15	3.03	79	0.7
202739		<0.005	0.8	0.66	103	0.2	21.6	107	0.8
202740		0.007	0.29	0.67	60	0.12	8.2	72	2.2
202741		0.008	0.26	0.65	50	0.11	28.5	95	4.1
202742		0.018	0.2	0.8	55	0.16	28.2	107	14.1
202743		<0.005	0.34	0.58	71	0.07	20.4	105	0.9

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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Page: 4 - A
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CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
202744		0.32	0.010	0.09	1.01	35.2	<0.2	<10	430	1.81	0.07	2.35	0.14	43.4	34.7	8
202745		0.34	0.006	0.11	1.09	38.7	<0.2	<10	430	1.72	0.06	1.33	0.19	56	40.7	3
202746		0.40	0.008	0.32	1.87	15.3	<0.2	<10	310	1.25	0.09	0.91	0.38	45.3	30.4	17
202747		0.48	0.006	0.24	1.49	10.7	<0.2	<10	320	1.35	0.1	1.77	0.3	49.5	26.8	11
202748		0.38	0.005	0.22	1.96	11.5	<0.2	<10	470	1.12	0.09	0.88	0.35	47.4	31.2	20
202749		0.66	<0.005	0.13	1.84	7	<0.2	<10	210	1.1	0.1	0.62	0.24	47.7	20.6	12
202750		0.06	<0.005	<0.01	0.02	0.1	<0.2	<10	10	<0.05	<0.01	0.01	0.01	1.16	0.1	<1
202751		0.56	<0.005	0.23	1.34	14.9	<0.2	<10	320	1.46	0.16	0.89	0.42	57.2	22.7	9
202752		0.16	0.008	0.33	1.15	11	<0.2	<10	260	0.81	0.11	0.28	2.11	20.2	12.6	10
202753		0.34	0.005	0.36	2.05	13.2	<0.2	<10	210	1.53	0.15	0.09	0.68	42.8	17.1	12
202754		0.28	<0.005	0.24	2.43	10	<0.2	<10	150	1.36	0.14	0.07	0.47	39.6	11.5	13
202755		0.18	<0.005	0.17	1.17	7.2	<0.2	<10	670	0.87	0.11	0.64	5.52	16.85	11.1	12
202756		0.28	0.015	0.2	3.19	18.5	<0.2	<10	350	1.69	0.14	0.22	1.93	85.4	25.9	36
202757		0.18	0.009	0.15	1.23	25	<0.2	<10	450	0.87	0.13	0.93	1.73	25.1	17.3	16
202758		0.18	0.009	0.14	1.73	18.6	<0.2	<10	370	1.2	0.11	0.31	1.64	28.4	21.6	22
202759		0.42	0.006	0.21	1.37	15	<0.2	<10	220	1.21	0.09	0.42	1.59	51.1	22.2	9
202761		0.46	0.015	0.17	0.93	38.7	<0.2	<10	300	1.04	0.08	0.42	0.26	33.8	26.2	5
202762		0.32	0.012	0.22	1.69	24.9	<0.2	<10	230	1.04	0.23	0.17	0.39	30.4	22.7	16
202763		0.22	<0.005	0.16	1.09	15.2	<0.2	<10	270	0.76	0.1	0.27	0.37	11.9	9.8	9
202764		0.20	<0.005	0.15	1.22	12.8	<0.2	<10	440	0.8	0.11	0.33	0.31	12.7	15.4	11
202765		0.32	<0.005	0.18	1.71	11.1	<0.2	<10	260	0.92	0.14	0.34	0.18	21.3	13.2	23
202766		0.18	<0.005	0.12	1.31	9.3	<0.2	<10	350	0.85	0.13	0.43	0.37	18.05	22.6	16
202767		0.40	0.011	0.07	2.21	17.4	<0.2	<10	170	1.5	0.13	0.25	0.18	45.5	17.4	15
202768		0.40	0.020	0.18	2.06	12.9	<0.2	<10	550	0.96	0.09	3.99	0.5	38.2	25.1	15
202769		0.16	<0.005	0.3	1.44	11.7	<0.2	<10	140	0.64	0.07	0.11	0.2	14.6	6.6	10
202770		0.14	<0.005	0.27	1.42	12.2	<0.2	<10	150	0.62	0.07	0.12	0.21	13.85	7.1	10
202771		0.16	<0.005	0.18	0.76	11.4	<0.2	<10	200	0.65	0.07	0.4	0.37	11.5	14.9	9
202772		0.28	0.006	0.06	1.82	14.1	<0.2	<10	300	1.45	0.07	0.47	0.28	59.2	31.1	7
202773		0.48	0.008	0.2	2.02	20.8	<0.2	<10	410	1.34	0.08	1.78	0.27	42.5	29.8	19

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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Page: 4 - B
Total # Pages: 4 (A - D)
Finalized Date: 13-OCT-2007
Account: EIARG

Project: Voightberg

CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
202744		4.78	130.5	5.91	2.84	0.05	0.06	0.19	0.049	0.21	20.8	5.9	0.19	1480	2.49
202745		3.76	165.5	6.44	3.48	0.07	0.04	0.18	0.051	0.19	26.3	6.2	0.24	2020	2.68
202746		1.87	125	5.99	5.88	0.08	0.05	0.14	0.051	0.15	21.7	14.4	0.73	1420	3.36
202747		2.11	124	5.53	5.03	0.06	0.07	0.13	0.052	0.18	22.8	9	0.57	1335	2.65
202748		1.52	117	6.2	7.25	0.08	0.07	0.11	0.051	0.15	22.6	13	0.97	1495	2.26
202749		1.18	63.4	5.14	7.24	0.06	0.07	0.03	0.035	0.11	24.4	11.9	0.84	1215	1.97
202750		<0.05	0.8	0.05	0.05	<0.05	0.03	<0.01	<0.005	<0.01	0.6	0.1	0.01	12	<0.05
202751		1.63	82.8	5.5	4.98	0.06	0.14	0.11	0.044	0.17	28.3	7.2	0.54	1500	5.39
202752		1.08	57.2	3.95	4.66	<0.05	0.03	0.07	0.034	0.16	9.1	3.9	0.21	905	7.33
202753		2.19	63.8	4.58	7.18	<0.05	0.09	0.1	0.059	0.13	20.8	7.2	0.21	1450	5.24
202754		2.23	55	3.46	8.15	<0.05	0.05	0.06	0.058	0.13	18.4	8.9	0.26	823	4.77
202755		1.29	36.6	3.25	6.3	<0.05	0.03	0.05	0.035	0.18	9.8	6	0.3	1145	3.81
202756		3.69	137	5.53	8.84	0.06	0.07	0.08	0.061	0.25	34.2	21.5	0.83	1175	4.62
202757		1.58	78.7	4.29	4.5	<0.05	0.05	0.07	0.038	0.17	12	6	0.39	1520	4.68
202758		1.87	82.8	4.44	5.64	<0.05	0.04	0.07	0.044	0.15	12.8	10.6	0.46	1340	5.11
202759		2.58	87.9	4.36	3.78	0.05	0.07	0.08	0.047	0.13	26.8	5.5	0.23	1655	3.68
202761		6.03	152.5	5.82	1.93	<0.05	0.07	0.08	0.047	0.14	18.7	2.3	0.11	1670	2.28
202762		2.05	98.8	5.45	5.29	<0.05	0.08	0.06	0.05	0.1	15.4	6.7	0.27	1180	5.26
202763		2.2	42.2	3.83	5.36	<0.05	0.02	0.06	0.036	0.15	7.2	3.3	0.16	1385	3.37
202764		1.68	54.5	4.59	7.97	<0.05	0.02	0.06	0.037	0.13	7.3	3.3	0.16	1790	3.94
202765		2.5	40.3	4.8	11.2	<0.05	0.03	0.05	0.051	0.1	11.2	7.1	0.3	1390	3.61
202766		1.38	35.6	5.16	12.95	<0.05	0.04	0.11	0.052	0.1	7.5	2.7	0.18	7020	5.41
202767		4.16	85.3	5.06	8.64	0.05	0.04	0.07	0.063	0.12	22.1	9.4	0.4	1080	3.36
202768		2.46	110.5	5.39	7.46	0.05	0.05	0.11	0.047	0.26	20	9.2	1.02	1415	2.77
202769		2.64	32.9	2.78	5.43	<0.05	0.03	0.09	0.034	0.1	8.9	4.1	0.16	375	2.93
202770		2.75	33.3	2.78	5.09	<0.05	0.03	0.09	0.032	0.1	8.3	4.2	0.16	419	2.82
202771		1.87	44	3.38	4.53	<0.05	0.03	0.06	0.032	0.11	5.7	1.9	0.1	2290	3.77
202772		5.09	151	6.69	5.34	0.06	0.05	0.06	0.061	0.14	26.9	10.1	0.51	2340	2.4
202773		5.97	134	6.23	6.26	0.06	0.08	0.22	0.058	0.18	22.8	10.9	0.74	1365	2.89

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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Page: 4 - C
Total # Pages: 4 (A - D)
Finalized Date: 13-OCT-2007
Account: EIARG

Project: Voightberg

CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method Analyte Units LOR	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2
202744		0.24	14.8	2920	21.6	12.8	0.001	0.07	0.96	13.6	0.8	0.3	115	<0.01	0.01	2.1
202745		0.09	13	3780	22.4	11.6	0.001	0.18	1	14.4	1	0.3	112	<0.01	0.02	2.3
202746		0.08	25	2790	17.1	8.6	0.005	0.13	1	10.5	5.7	0.3	62	<0.01	0.05	1.8
202747		0.27	15.9	3150	22.6	10	0.001	0.15	0.64	9.6	1.4	0.4	82	<0.01	0.04	2
202748		0.13	23.8	2920	21	8	0.003	0.16	0.63	9.8	1.8	0.3	56.7	<0.01	0.05	1.5
202749		0.21	12.8	1850	20.3	7.1	0.001	0.02	0.43	5.8	0.9	0.3	38.5	<0.01	0.02	1.5
202750		<0.05	0.3	20	0.5	0.1	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	0.6	<0.01	<0.01	0.3
202751		0.26	16.3	2060	40.9	9.1	0.001	0.21	1.03	6.3	1.2	0.4	60.2	0.01	0.03	2.3
202752		0.81	11.9	2500	19.6	20.3	<0.001	0.13	0.82	0.6	0.8	0.5	32.4	0.01	0.05	<0.2
202753		1.78	12.4	2670	23.4	21.4	0.001	0.1	0.76	1.3	1	1.1	13.3	0.03	0.05	0.2
202754		1.8	10.4	2370	18.8	23.2	<0.001	0.07	0.57	1	1	1.1	11.6	0.02	0.04	<0.2
202755		1.28	10	2760	13	29.8	<0.001	0.14	0.59	0.4	0.6	1	102	0.01	0.04	<0.2
202756		0.96	38	1360	22.8	24.2	0.001	0.02	1.95	12.1	1.3	0.6	29.3	<0.01	0.08	1.1
202757		0.93	13.7	2860	24.1	21.6	<0.001	0.14	1.12	2.3	0.7	0.4	74.2	0.01	0.13	<0.2
202758		1.17	19.8	1750	23.5	17	<0.001	0.1	1.52	2.3	0.9	0.5	36.9	<0.01	0.09	<0.2
202759		1.41	15.3	2650	17.9	13.8	0.001	0.1	1.21	3.6	1.2	0.5	40.2	0.01	0.04	0.3
202761		0.47	14.2	2100	14.9	11.6	<0.001	0.03	1.67	11.1	1	0.2	30.3	0.01	0.04	0.8
202762		0.88	15.2	2550	26.9	17.4	<0.001	0.11	1.02	2.6	1	0.4	18.8	0.01	0.15	0.3
202763		1.02	9.3	2200	11.7	26.9	<0.001	0.13	0.64	0.5	0.5	0.8	34.1	<0.01	0.03	<0.2
202764		0.92	9.8	2030	16.5	24.3	<0.001	0.12	0.75	0.3	0.7	1.2	43.5	0.01	0.03	<0.2
202765		3.17	16.6	1700	15.1	22	<0.001	0.11	0.61	0.6	0.6	2.2	28.3	0.01	0.03	<0.2
202766		2.59	10.5	2090	16.3	21.6	<0.001	0.09	0.9	1.1	0.7	2.6	20	0.01	0.04	<0.2
202767		2.5	15.5	2140	19.8	18.9	<0.001	0.04	0.77	5.2	0.8	1.3	23.6	0.01	0.04	0.3
202768		0.22	16.6	2110	19.4	13.8	0.002	0.4	0.85	12.2	0.9	0.3	127.5	<0.01	0.08	1.8
202769		1.01	6.6	2390	10.6	19.2	<0.001	0.1	0.5	0.3	0.7	0.7	12.5	0.01	0.02	<0.2
202770		0.79	6.6	2340	10.3	21.1	<0.001	0.1	0.51	0.3	0.7	0.6	13.4	<0.01	0.02	<0.2
202771		0.77	8.3	2540	13.1	14.5	<0.001	0.14	0.78	0.5	0.7	0.9	26.8	0.01	0.03	<0.2
202772		0.42	12.6	2830	24.4	12.9	<0.001	0.03	0.73	14.5	0.7	0.3	44.1	<0.01	0.02	1.6
202773		0.94	22.3	2520	18.5	15.3	0.001	0.04	1.14	17.8	0.9	0.4	100	<0.01	0.03	1.9

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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Page: 4 - D
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Project: Voightberg

CERTIFICATE OF ANALYSIS TR07097567

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2
202744		<0.005	0.34	0.52	77	0.05	16.9	95
202745		<0.005	0.35	0.49	96	0.07	20.7	100
202746		<0.005	0.19	0.43	83	0.06	19.1	127
202747		0.006	0.16	0.48	79	0.05	18.7	107
202748		0.014	0.13	0.37	105	0.05	19.2	120
202749		0.015	0.11	0.42	92	0.05	14.75	91
202750		<0.005	<0.02	0.06	<1	<0.05	0.63	2
202751		0.008	0.24	0.49	66	0.07	16.85	109
202752		0.007	0.21	0.63	60	0.09	3.56	104
202753		0.01	0.27	0.89	66	0.13	13.95	105
202754		0.012	0.27	0.83	67	0.13	11.3	100
202755		0.007	0.15	0.55	64	0.11	4.19	137
202756		0.027	0.73	0.88	131	0.17	20.2	175
202757		0.009	0.31	0.48	74	0.19	6.92	147
202758		0.012	0.45	0.59	89	0.17	7.35	166
202759		0.008	0.2	0.58	59	0.18	21.2	109
202761		<0.005	0.2	0.48	60	0.14	22	99
202762		0.007	0.3	0.68	87	0.2	6.77	104
202763		0.011	0.11	0.57	63	0.1	2.91	105
202764		0.009	0.12	0.57	83	0.11	2.49	107
202765		0.024	0.12	0.76	88	0.14	5.31	98
202766		0.073	0.2	0.68	113	0.1	3.49	128
202767		0.02	0.18	0.88	93	0.19	14.45	100
202768		0.052	0.22	0.59	122	0.13	15.15	97
202769		<0.005	0.17	0.56	66	0.11	3.64	52
202770		<0.005	0.17	0.52	67	0.12	3.35	53
202771		0.005	0.13	0.55	64	0.14	3.02	84
202772		<0.005	0.25	0.46	112	0.15	21.6	93
202773		0.017	0.24	0.48	112	0.13	20.8	101

Comments: ** CORRECTED COPY for PO number and for project name ** Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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Finalized Date: 8-NOV-2007
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CERTIFICATE VA07129848

Project: Voigtberg

P.O. No.: BCG07-01

This report is for 109 Soil samples submitted to our lab in Vancouver, BC, Canada on
7-NOV-2007.

The following have access to data associated with this certificate:

HENRY AWMACK
RORY KUTLUOGLU

ANDREW BROWN
FREEMAN SMITH

QUITY ENGINEERING GENERA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS41	51 anal. aqua regia ICPMS
Au-AA23	Au 30g FA-AA finish AAS

To: EQUITY ENGINEERING LTD.
ATTN: EQUITY ENGINEERING GENERAL
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A

Total # Pages: 4 (A - D)

Finalized Date: 8-NOV-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07129848

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
202662		0.26	0.075	0.75	1.40	230	<0.2	<10	590	2.51	0.42	0.35	0.50	93.7	92.9	3
202663		0.38	0.153	1.42	1.27	167.5	<0.2	<10	390	1.60	0.71	0.20	0.54	126.5	46.6	4
202664		0.52	0.069	1.27	1.36	176.5	<0.2	<10	810	2.25	0.68	0.50	0.80	81.9	69.9	2
202665		0.32	0.053	0.58	2.44	128.5	<0.2	<10	340	2.22	0.42	0.19	0.25	65.7	39.4	5
202666		0.24	0.108	1.08	1.20	166.5	<0.2	<10	590	1.46	2.78	0.25	0.66	130.5	36.8	4
202667		0.42	0.072	0.75	1.32	138.0	<0.2	<10	870	1.85	0.30	0.51	0.66	71.0	51.1	2
202668		0.52	0.115	1.08	1.13	181.5	<0.2	<10	580	1.77	0.42	0.35	0.80	78.8	41.9	4
202669		0.50	0.234	1.34	0.99	369	0.3	<10	620	1.47	0.48	0.15	1.31	117.5	69.8	2
202670		0.48	0.183	1.35	0.79	243	0.2	<10	660	1.26	0.60	0.17	1.06	101.0	44.9	2
202671		0.50	0.202	1.29	0.71	234	0.2	<10	480	1.14	0.33	0.38	0.83	83.3	37.1	3
202672		0.32	0.345	1.45	0.71	240	0.3	<10	510	1.03	0.36	0.26	0.64	92.9	35.9	3
202673		0.36	0.214	1.13	0.91	234	0.2	<10	370	1.24	0.27	0.24	0.66	77.0	33.0	13
202674		0.28	0.196	1.26	0.98	232	0.4	<10	390	1.55	0.28	0.25	0.68	84.8	34.7	12
202675		0.26	0.112	0.59	1.07	177.0	<0.2	<10	400	1.76	0.21	0.15	0.36	81.4	37.4	13
202676		0.18	0.066	0.57	2.10	82.6	<0.2	<10	200	1.67	0.24	0.04	0.14	60.0	17.7	17
202677		0.28	0.138	0.34	2.49	59.5	<0.2	<10	140	1.54	0.14	0.19	0.35	53.1	21.9	22
202679		0.40	0.252	2.15	0.97	188.5	0.2	<10	640	1.35	0.19	0.47	1.30	87.4	34.3	6
202680		0.30	0.122	1.95	0.90	102.5	<0.2	<10	200	0.93	0.25	0.24	0.56	49.0	38.2	6
202681		0.36	0.016	4.65	0.31	108.5	<0.2	<10	210	0.29	0.07	0.12	0.10	20.8	4.6	<1
202682		0.32	0.035	8.38	0.34	88.8	<0.2	<10	170	0.45	0.22	0.13	1.68	19.05	6.4	1
202683		0.50	0.076	3.25	0.66	151.0	<0.2	<10	110	0.42	0.33	0.20	0.09	23.1	8.2	3
202684		0.38	0.230	1.13	0.65	159.5	0.2	<10	250	0.32	0.65	0.23	0.08	17.40	5.8	5
202685		0.32	0.326	1.31	0.64	200	0.3	<10	290	0.28	0.73	0.21	0.14	15.25	5.6	6
202686		0.48	0.165	1.15	1.03	135.5	<0.2	<10	150	0.69	0.51	0.51	0.34	22.1	20.1	6
202687		0.44	0.025	0.45	2.81	14.2	<0.2	<10	340	0.59	0.08	4.10	0.19	24.0	25.2	13
202688		0.30	0.021	0.17	2.58	10.3	<0.2	<10	300	0.61	0.07	4.05	0.20	22.9	25.2	11
202689		0.34	0.020	0.42	0.93	22.2	<0.2	<10	30	1.58	0.43	2.77	1.32	25.4	20.8	7
202690		0.44	0.034	0.16	2.44	8.4	<0.2	<10	280	0.86	0.09	4.56	0.24	29.7	22.3	15
202691		0.38	0.018	0.21	2.32	11.8	<0.2	<10	340	1.10	0.13	4.30	0.16	36.6	27.6	11
202692		0.40	0.005	0.12	2.31	5.7	<0.2	<10	400	2.34	0.12	1.63	0.10	52.9	37.0	5
202693		0.40	<0.005	0.12	1.39	10.3	<0.2	<10	410	2.21	0.13	1.04	0.49	67.1	32.5	6
202694		0.36	<0.005	0.25	0.73	12.6	<0.2	<10	280	2.41	0.12	1.48	0.19	55.7	24.7	2
202695		0.46	<0.005	0.04	1.20	4.5	<0.2	<10	270	1.74	0.07	1.65	0.18	41.7	24.3	5
202696		0.54	<0.005	0.22	0.76	17.3	<0.2	<10	390	1.89	0.16	0.90	0.77	49.4	35.7	4
202697		0.34	<0.005	0.06	1.37	3.3	<0.2	<10	660	2.76	0.11	0.57	0.14	53.8	23.5	4
202698		0.08	<0.005	0.01	0.01	<0.1	<0.2	<10	10	<0.05	<0.01	0.01	0.01	1.18	0.1	<1
202699		0.36	0.011	0.38	1.63	33.8	<0.2	<10	670	2.62	0.21	0.24	0.68	93.0	36.4	19
202700		0.36	0.007	0.41	0.98	64.0	<0.2	<10	410	2.85	0.19	0.61	1.51	129.5	51.8	13
202701		0.38	0.010	0.21	1.89	19.7	<0.2	<10	310	3.53	0.16	0.25	0.25	102.5	43.2	8
202702		0.36	0.006	0.17	1.57	18.2	<0.2	<10	350	2.56	0.21	0.27	0.52	60.1	31.5	8

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 2 - B

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CERTIFICATE OF ANALYSIS VA07129848

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
202662		10.30	310	9.50	3.64	0.08	0.02	0.25	0.065	0.30	53.1	4.6	0.29	5760	51.4
202663		2.70	263	8.49	3.24	0.07	0.04	0.41	0.067	0.23	102.0	3.8	0.19	3270	56.0
202664		7.62	219	8.86	3.94	0.08	0.02	0.24	0.067	0.35	44.5	5.4	0.30	5830	35.0
202665		6.67	169.5	7.74	6.66	0.06	0.08	0.14	0.068	0.27	42.4	9.2	0.42	3750	22.7
202666		2.32	239	8.01	3.22	0.07	0.03	0.39	0.058	0.26	125.5	4.8	0.20	2320	58.7
202667		5.48	233	8.22	3.76	0.07	0.02	0.29	0.058	0.34	47.6	4.9	0.27	4190	39.1
202668		3.55	201	8.11	3.38	0.06	0.02	0.22	0.058	0.30	62.7	3.9	0.20	3020	58.5
202669		1.19	366	12.55	2.80	0.08	0.03	0.24	0.085	0.31	78.1	2.8	0.13	6660	65.3
202670		1.53	249	9.28	2.50	0.07	0.02	0.37	0.061	0.30	89.0	2.4	0.12	2930	63.1
202671		1.03	210	8.66	2.72	0.06	0.03	0.52	0.061	0.29	66.0	3.3	0.13	2330	50.6
202672		0.70	204	8.43	2.71	0.06	0.03	0.33	0.057	0.22	80.6	3.2	0.15	2430	54.1
202673		0.88	184.0	8.14	3.42	0.06	0.04	0.45	0.060	0.18	57.0	3.2	0.18	1955	36.4
202674		1.03	189.0	8.27	3.82	0.07	0.05	0.45	0.066	0.20	64.2	3.6	0.18	2000	39.0
202675		1.79	185.5	7.83	3.32	0.06	0.02	0.35	0.070	0.26	56.1	3.0	0.13	2000	22.7
202676		2.42	89.3	5.85	9.41	<0.05	0.03	0.10	0.075	0.13	40.2	7.2	0.23	1185	18.85
202677		3.75	140.5	6.60	8.68	<0.05	0.03	0.17	0.087	0.12	30.0	10.7	0.34	1045	15.60
202679		0.58	152.5	7.76	3.14	0.07	0.05	0.68	0.060	0.14	63.1	2.8	0.12	3430	33.2
202680		1.95	229	8.93	3.01	0.05	0.06	0.77	0.051	0.22	26.8	2.3	0.22	1505	27.5
202681		3.11	40.1	5.80	1.12	<0.05	0.04	1.37	0.029	0.54	14.2	0.7	0.03	142	18.55
202682		1.94	49.9	4.64	1.20	<0.05	0.06	3.74	0.026	0.44	13.6	0.8	0.03	199	25.2
202683		1.69	84.8	8.41	2.77	0.05	0.04	0.85	0.043	0.65	15.7	2.2	0.21	275	15.35
202684		0.93	157.0	7.21	2.90	0.06	0.08	0.65	0.039	0.33	11.1	2.3	0.27	217	13.10
202685		1.02	181.5	7.98	2.82	0.07	0.08	0.72	0.041	0.25	9.6	2.6	0.30	207	17.10
202686		1.50	264	7.87	3.97	0.05	0.12	0.24	0.047	0.18	12.7	4.9	0.47	809	8.22
202687		1.76	106.0	6.05	10.05	0.08	0.39	0.05	0.042	0.14	13.3	15.4	1.89	1370	2.05
202688		1.59	103.0	5.93	9.22	0.10	0.40	0.04	0.042	0.13	12.1	14.5	1.90	1310	3.96
202689		1.62	250	5.35	2.65	0.06	0.23	0.08	0.031	0.22	14.9	4.3	0.45	784	36.5
202690		1.43	81.1	5.36	9.01	0.08	0.42	0.09	0.041	0.19	16.1	13.1	1.69	1260	3.13
202691		1.71	129.5	5.58	8.92	0.06	0.25	0.05	0.041	0.22	19.0	14.7	1.53	1235	2.70
202692		4.40	247	5.28	6.18	0.05	0.06	0.03	0.040	0.29	22.8	14.0	0.92	1905	2.11
202693		2.71	177.5	5.98	4.35	0.05	0.07	0.05	0.041	0.26	35.3	7.3	0.46	2570	10.15
202694		2.50	83.0	4.04	2.07	<0.05	0.07	0.06	0.033	0.27	28.8	2.3	0.14	1690	6.39
202695		3.40	74.5	4.60	3.22	<0.05	0.04	0.12	0.038	0.31	20.2	4.7	0.27	1950	4.05
202696		2.65	114.0	5.70	1.98	0.05	0.02	0.05	0.047	0.23	22.6	1.9	0.16	2640	7.32
202697		2.19	95.4	4.98	4.50	0.10	0.03	0.03	0.059	0.21	29.3	3.9	0.15	2400	2.03
202698		<0.05	0.9	0.02	<0.05	<0.05	0.02	<0.01	<0.005	<0.01	0.6	0.1	<0.01	7	<0.05
202699		2.17	306	7.21	5.67	0.13	0.04	0.06	0.066	0.21	46.6	6.9	0.36	5930	20.3
202700		1.50	90.3	10.50	3.66	0.16	0.08	0.10	0.073	0.27	66.3	4.5	0.20	4640	17.25
202701		2.83	204	7.09	6.32	0.12	0.04	0.05	0.056	0.18	42.1	8.8	0.26	5330	17.45
202702		1.82	134.0	6.04	5.39	0.10	0.03	0.07	0.063	0.21	27.9	4.8	0.19	2660	9.28

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 2 - C

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CERTIFICATE OF ANALYSIS VA07129848

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01	ppm 0.2
202662		0.56	24.3	4570	102.0	19.8	<0.001	0.16	3.97	18.3	2.3	0.4	138.0	<0.01	0.53	2.4
202663		0.90	16.0	3470	104.5	17.4	<0.001	0.18	6.01	12.3	2.4	0.4	187.0	0.01	0.94	0.9
202664		0.88	23.4	4180	241	19.4	<0.001	0.23	4.77	18.2	1.8	0.6	181.5	<0.01	0.45	2.1
202665		1.19	13.6	3560	66.5	25.5	<0.001	0.15	3.25	10.2	1.5	0.7	102.5	0.01	0.39	0.5
202666		0.40	12.2	3460	224	16.3	<0.001	0.21	5.21	9.1	2.7	0.3	168.5	<0.01	0.79	0.6
202667		0.95	19.8	3740	67.8	19.5	<0.001	0.28	4.62	14.1	1.5	0.4	216	<0.01	0.49	0.9
202668		0.88	16.4	3850	96.1	16.7	<0.001	0.28	6.18	12.0	1.8	0.5	194.5	<0.01	0.75	0.7
202669		1.11	22.0	5100	119.0	16.2	<0.001	0.44	9.61	20.4	3.0	0.4	284	0.01	1.16	2.2
202670		0.74	16.5	3850	110.5	15.0	<0.001	0.35	8.29	16.3	2.1	0.3	242	<0.01	1.04	2.1
202671		1.23	15.9	3310	80.6	14.6	<0.001	0.38	8.06	14.3	2.0	0.5	307	0.01	0.99	1.8
202672		1.55	14.2	3300	91.7	11.4	<0.001	0.38	6.92	13.2	2.4	0.5	201	0.01	1.41	2.3
202673		2.28	20.9	2810	68.6	11.3	<0.001	0.22	6.80	16.8	1.8	0.7	129.0	0.01	0.80	2.2
202674		2.59	20.9	2900	70.6	13.0	<0.001	0.23	7.14	17.8	2.0	0.8	140.5	0.01	0.89	2.3
202675		1.66	21.9	3090	54.0	17.5	<0.001	0.29	6.16	20.0	1.8	0.6	158.5	<0.01	0.73	1.7
202676		3.39	10.9	2140	38.9	17.6	<0.001	0.16	2.76	2.4	1.1	2.0	63.5	0.01	0.34	<0.2
202677		4.50	14.0	2920	27.2	15.7	<0.001	0.09	2.09	9.2	1.3	1.5	51.3	0.03	0.29	0.4
202679		1.36	17.0	3910	66.9	13.3	<0.001	0.18	7.01	8.2	1.6	0.5	82.4	0.01	0.86	0.3
202680		0.21	15.3	3570	97.1	13.6	0.003	1.24	6.11	14.0	2.4	0.2	43.5	<0.01	0.72	3.2
202681		0.08	2.7	2670	243	16.0	0.008	1.19	5.85	5.2	1.0	0.2	165.5	<0.01	0.09	1.9
202682		0.06	3.1	1990	693	15.0	0.007	1.67	8.66	4.5	1.2	0.2	138.5	<0.01	0.22	2.1
202683		0.17	5.0	4060	165.0	17.9	0.010	1.53	4.31	5.0	4.3	0.3	229	<0.01	0.73	3.6
202684		0.14	5.5	2980	76.2	8.7	0.010	0.89	4.55	3.3	8.6	0.4	72.8	<0.01	1.26	1.8
202685		0.18	5.7	3060	82.1	7.7	0.015	0.80	5.12	3.4	10.1	0.5	53.5	<0.01	1.35	1.8
202686		0.26	13.2	2990	53.5	8.3	0.018	2.01	2.55	6.6	7.4	0.3	52.8	<0.01	1.20	2.2
202687		0.07	12.6	1850	11.0	7.5	0.002	0.61	0.58	10.5	1.0	0.4	98.1	<0.01	0.22	1.1
202688		0.08	11.4	1940	9.6	7.0	0.004	0.58	0.57	10.6	0.9	0.4	96.0	<0.01	0.07	1.0
202689		0.05	30.4	2180	68.1	9.9	0.038	4.25	0.65	4.6	9.1	0.2	408	<0.01	0.72	1.9
202690		0.07	13.1	1980	14.9	10.2	0.005	0.60	0.51	10.5	1.1	0.4	131.0	<0.01	0.11	1.5
202691		0.06	13.7	2600	18.6	11.8	0.005	0.66	0.47	10.6	1.0	0.4	173.0	<0.01	0.09	1.7
202692		<0.05	11.0	3350	21.7	17.6	<0.001	0.04	0.23	7.8	0.6	0.3	120.5	<0.01	0.06	2.1
202693		<0.05	14.7	2530	31.4	17.1	<0.001	0.17	0.37	9.3	0.8	0.2	88.2	<0.01	0.03	2.8
202694		<0.05	12.3	2060	39.4	14.7	<0.001	0.33	0.67	6.8	0.5	0.2	102.5	<0.01	0.01	3.5
202695		0.24	12.1	2270	13.8	19.4	<0.001	0.76	0.31	9.0	0.2	0.3	76.1	<0.01	<0.01	1.6
202696		0.14	19.0	2370	38.9	12.6	0.002	0.33	0.80	8.7	1.1	0.2	62.9	<0.01	0.03	1.7
202697		0.79	9.8	2120	13.4	16.1	<0.001	0.02	0.14	9.8	0.7	0.8	33.0	0.01	0.01	0.5
202698		<0.05	0.3	20	0.5	0.1	<0.001	0.01	<0.05	0.1	<0.2	<0.2	0.9	<0.01	<0.01	0.3
202699		0.69	30.7	1390	66.6	20.1	0.001	0.10	0.83	14.5	1.9	0.4	45.7	0.01	0.33	1.0
202700		0.17	32.0	3380	94.5	11.2	0.004	0.56	1.90	19.7	2.1	0.3	109.5	0.01	0.35	3.8
202701		1.21	18.5	2750	60.7	13.1	0.001	0.05	0.72	12.1	1.4	0.8	24.4	0.02	0.09	3.7
202702		1.91	21.4	2190	40.7	14.7	0.001	0.07	0.66	6.8	1.4	1.0	33.1	0.02	0.35	0.8

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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CERTIFICATE OF ANALYSIS VA07129848

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2
202662		0.008	2.24	1.99	101	10.40	25.6	115
202663		0.008	1.41	2.18	95	3.02	26.0	132
202664		0.016	3.02	1.37	110	9.32	28.7	158
202665		0.017	1.37	1.27	126	3.39	21.1	126
202666		0.008	1.19	2.74	109	3.24	23.9	120
202667		0.013	2.04	1.22	99	5.39	24.0	133
202668		0.018	2.32	1.55	97	9.53	20.7	183
202669		0.020	4.78	2.12	107	3.78	30.7	265
202670		0.014	2.65	2.36	81	2.84	22.1	213
202671		0.018	2.49	1.62	73	2.61	20.3	161
202672		0.024	1.56	3.12	71	1.47	20.2	146
202673		0.038	2.42	4.69	84	2.25	24.5	147
202674		0.039	2.41	4.94	85	2.32	26.4	152
202675		0.009	1.89	1.36	82	1.99	25.5	119
202676		0.014	1.03	1.58	83	0.88	14.85	85
202677		0.036	0.70	1.33	99	0.43	13.00	97
202679		0.009	1.34	2.48	76	0.98	34.5	224
202680		0.006	3.59	2.48	65	0.57	14.45	296
202681		<0.005	9.32	0.45	35	0.30	3.61	95
202682		<0.005	8.01	0.31	38	2.89	2.94	357
202683		0.006	7.99	0.40	67	2.61	5.03	72
202684		0.008	2.23	0.82	61	6.36	5.45	53
202685		0.013	2.36	1.06	68	9.50	5.00	56
202686		0.019	1.57	0.63	63	3.57	12.20	120
202687		0.144	0.15	0.59	145	0.26	15.00	87
202688		0.156	0.11	0.57	147	0.26	14.65	85
202689		0.006	0.27	2.04	41	0.28	13.40	304
202690		0.139	0.15	0.60	133	0.28	14.40	86
202691		0.083	0.17	0.51	127	0.24	16.05	83
202692		<0.005	0.36	0.30	71	0.05	17.25	84
202693		0.005	0.41	0.79	60	0.12	20.1	137
202694		<0.005	0.30	0.85	27	0.07	15.05	68
202695		0.009	0.22	0.40	48	0.05	13.60	55
202696		0.006	0.35	0.73	33	0.07	18.85	203
202697		0.010	0.14	0.57	73	0.09	23.0	64
202698		<0.005	<0.02	0.09	<1	<0.05	0.70	3
202699		0.015	0.68	1.10	61	0.18	31.9	123
202700		0.010	0.39	1.46	58	0.11	28.3	225
202701		0.009	0.52	1.71	67	0.21	24.4	107
202702		0.019	0.41	1.13	52	0.17	18.20	159

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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To: EQUITY ENGINEERING LTD.

700 - 700 WEST PENDER ST.

VANCOUVER BC V6C 1G8

Page: 3 - A

Total # Pages: 4 (A - D)

Finalized Date: 8-NOV-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07129848

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
202703		0.36	0.009	0.15	2.37	19.2	<0.2	<10	220	2.91	0.24	0.18	0.37	68.5	28.0	10
202704		0.32	<0.005	0.23	2.08	13.0	<0.2	<10	130	1.84	0.20	0.08	0.21	30.8	10.5	10
202705		0.32	<0.005	0.33	2.06	12.3	<0.2	<10	110	1.44	0.18	0.04	0.23	29.8	9.6	11
202706		0.40	<0.005	0.20	2.65	13.2	<0.2	<10	150	1.83	0.22	0.08	0.20	63.5	15.9	11
202707		0.46	<0.005	0.07	1.75	5.0	<0.2	<10	490	1.88	0.11	0.57	0.16	52.9	23.0	8
202708		0.32	0.007	0.06	1.81	7.3	<0.2	<10	440	2.14	0.13	0.57	0.22	73.0	22.6	6
202709		0.44	0.007	0.04	2.61	5.7	<0.2	<10	380	1.85	0.11	0.48	0.21	57.3	25.7	9
202710		0.40	<0.005	0.09	1.68	7.5	<0.2	<10	520	1.68	0.12	0.76	0.34	61.4	26.2	15
202711		0.36	<0.005	0.06	2.84	5.4	<0.2	<10	390	1.88	0.12	0.37	0.13	50.2	23.5	13
202712		0.34	<0.005	0.05	2.80	5.3	<0.2	<10	400	1.97	0.11	0.36	0.14	52.5	24.1	12
202713		0.30	0.007	0.07	1.59	4.7	<0.2	<10	480	1.63	0.10	2.24	0.18	50.6	26.9	8
202714		0.36	0.018	0.06	3.49	7.0	<0.2	<10	210	1.02	0.07	0.37	0.25	33.0	25.0	93
202715		0.34	<0.005	0.06	2.83	7.5	<0.2	<10	200	1.23	0.10	0.38	0.19	40.8	16.7	76
202716		0.48	<0.005	0.04	2.64	10.2	<0.2	<10	200	1.20	0.09	0.60	0.33	51.4	18.9	24
202717		0.36	0.009	0.21	2.12	22.3	<0.2	<10	240	1.26	0.11	0.44	0.67	46.3	28.6	55
202718		0.34	0.009	0.09	1.14	5.7	<0.2	<10	350	1.16	0.06	0.64	0.18	36.3	25.8	11
202719		0.60	0.005	0.44	1.96	24.4	<0.2	<10	320	1.42	0.11	0.31	1.82	52.8	27.2	21
202720		0.56	0.005	0.44	1.98	24.5	<0.2	<10	320	1.43	0.11	0.32	1.85	55.1	27.6	22
202721		0.34	<0.005	0.24	1.29	25.7	<0.2	<10	240	1.71	0.09	0.50	1.26	60.8	23.4	13
202722		0.36	0.007	0.33	1.71	38.0	<0.2	<10	270	1.92	0.11	0.21	0.68	76.0	22.8	10
202723		0.32	<0.005	0.13	2.49	14.2	<0.2	<10	160	1.75	0.20	0.11	0.17	53.5	13.9	16
202724		0.26	<0.005	0.08	2.52	9.5	<0.2	<10	150	1.59	0.14	0.11	0.21	44.5	15.0	19
202725		0.14	<0.005	0.22	1.30	4.1	<0.2	<10	280	1.02	0.07	0.16	0.39	18.05	12.3	10
202726		0.28	<0.005	0.08	2.72	10.7	<0.2	<10	560	2.04	0.08	0.52	0.22	68.2	28.3	17
202727		0.18	<0.005	0.19	1.41	7.5	<0.2	<10	270	1.24	0.08	0.33	0.33	17.15	25.8	15
202728		0.28	<0.005	0.12	2.65	8.3	<0.2	<10	220	1.36	0.07	0.07	0.15	19.10	11.5	18
202729		0.30	0.009	0.06	2.67	21.5	<0.2	<10	610	2.24	0.09	0.71	0.17	79.9	30.4	23
202730		0.22	<0.005	0.16	1.44	14.4	<0.2	<10	330	1.13	0.08	0.27	0.30	21.9	46.9	11
202731		0.26	0.006	0.07	2.25	20.4	<0.2	<10	250	1.49	0.08	0.37	0.10	27.6	15.0	17
202732		0.34	0.010	0.09	4.11	21.7	<0.2	<10	690	2.35	0.09	1.16	0.24	55.8	65.1	77
202733		0.34	<0.005	0.14	2.29	17.1	<0.2	<10	430	1.61	0.10	0.91	0.28	50.7	32.3	42
202734		0.32	0.005	0.06	2.78	18.2	<0.2	<10	310	1.53	0.07	0.37	0.22	52.1	28.2	21
202735		0.46	0.021	0.26	1.14	59.9	<0.2	<10	480	1.84	0.08	0.70	0.35	57.1	47.9	14
202737		0.48	0.005	0.11	1.94	25.4	<0.2	<10	300	1.81	0.11	0.32	0.15	49.7	22.3	14
202738		0.14	<0.005	0.15	0.92	14.5	<0.2	<10	280	0.94	0.07	0.39	0.36	11.95	13.1	10
202739		0.34	<0.005	0.10	0.94	54.0	<0.2	10	350	1.91	0.07	1.15	0.57	43.4	35.4	15
202740		0.18	<0.005	0.12	1.66	18.3	<0.2	<10	110	1.27	0.13	0.08	0.13	37.6	10.5	9
202741		0.52	0.016	0.09	1.04	25.2	<0.2	<10	350	2.06	0.15	0.48	0.18	78.2	23.5	5
202742		0.54	0.006	0.09	1.35	15.9	<0.2	<10	460	2.45	0.18	0.39	0.22	83.7	22.9	8
202743		0.50	<0.005	0.08	0.88	19.0	<0.2	<10	420	1.86	0.06	1.54	0.17	40.7	33.5	1

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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Page: 3 - B

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CERTIFICATE OF ANALYSIS VA07129848

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
202703		1.99	166.0	6.77	8.98	0.10	0.06	0.04	0.063	0.16	30.4	8.8	0.32	2910	9.26
202704		1.13	77.1	4.94	9.53	0.06	0.03	0.08	0.052	0.11	16.1	5.4	0.14	1335	7.79
202705		1.26	77.5	4.58	9.00	0.06	0.03	0.06	0.052	0.11	15.0	5.3	0.17	994	8.93
202706		2.05	78.7	5.35	11.50	0.05	0.07	0.04	0.077	0.14	23.6	7.9	0.31	2060	7.50
202707		2.67	120.0	4.79	5.56	0.06	0.03	0.04	0.050	0.19	25.7	7.0	0.35	1960	2.77
202708		2.81	123.0	4.62	6.80	0.07	0.03	0.03	0.050	0.18	32.5	9.7	0.39	2260	2.90
202709		2.19	146.0	5.83	9.13	0.06	0.04	0.03	0.056	0.20	24.0	15.7	0.79	2160	1.82
202710		2.29	142.5	5.21	5.62	0.06	0.06	0.05	0.045	0.22	29.1	8.3	0.50	2120	2.71
202711		3.07	122.5	5.54	8.93	0.05	0.10	0.03	0.056	0.16	19.5	10.4	0.39	2060	2.98
202712		3.09	125.0	5.54	8.85	0.05	0.11	0.04	0.056	0.16	20.0	10.2	0.39	2150	2.91
202713		3.99	128.0	4.47	4.75	0.05	0.03	0.05	0.038	0.33	23.5	6.9	0.33	2300	2.95
202714		1.88	64.1	5.73	11.35	0.05	0.05	0.03	0.056	0.12	13.4	25.6	2.02	1350	1.80
202715		2.39	51.3	4.60	9.49	0.05	0.04	0.02	0.054	0.12	18.1	16.9	0.93	930	2.18
202716		2.90	53.4	4.79	8.34	0.06	0.09	0.10	0.058	0.11	25.4	12.8	0.58	1225	4.36
202717		3.26	104.0	6.50	5.71	0.06	0.08	0.31	0.072	0.12	18.0	10.4	0.62	1455	5.69
202718		2.34	86.4	5.64	3.49	0.06	0.04	0.06	0.040	0.21	14.7	4.8	0.26	1900	1.21
202719		2.82	89.5	5.82	6.26	0.06	0.03	0.27	0.061	0.15	21.1	10.2	0.53	2390	2.84
202720		2.92	88.8	5.88	6.37	0.06	0.03	0.31	0.063	0.15	21.6	10.2	0.53	2440	2.91
202721		2.47	69.9	5.25	3.95	0.06	0.03	0.18	0.050	0.18	30.3	5.5	0.29	2130	2.39
202722		2.87	88.9	5.96	4.72	0.07	0.04	0.70	0.054	0.14	32.4	5.4	0.24	2460	4.64
202723		2.75	73.8	5.59	11.15	0.06	0.07	0.09	0.072	0.11	23.5	9.5	0.34	1110	3.51
202724		2.91	60.7	4.28	8.03	0.05	0.09	0.15	0.058	0.11	17.8	10.3	0.37	1235	2.43
202725		6.69	29.0	2.62	6.08	<0.05	0.04	0.09	0.035	0.13	8.9	3.2	0.13	1620	2.47
202726		6.99	98.0	5.78	8.28	0.06	0.08	0.11	0.063	0.21	24.1	15.8	0.58	1795	1.68
202727		3.47	57.8	4.42	6.99	<0.05	0.04	0.08	0.042	0.17	6.8	4.1	0.23	4580	3.66
202728		6.24	62.9	4.30	8.46	<0.05	0.13	0.08	0.049	0.13	9.6	12.0	0.32	492	2.71
202729		5.45	128.5	6.53	8.08	0.07	0.08	0.13	0.064	0.18	31.4	13.8	0.59	1885	1.75
202730		3.87	66.3	4.76	5.25	<0.05	0.05	0.09	0.040	0.15	8.3	5.0	0.25	4460	3.59
202731		4.54	71.6	4.38	6.18	<0.05	0.10	0.11	0.048	0.11	13.1	8.8	0.30	629	2.51
202732		22.8	183.0	8.50	14.80	0.15	0.09	0.22	0.080	0.18	23.2	35.2	1.78	3290	1.36
202733		5.80	127.0	6.24	7.78	0.09	0.06	0.07	0.056	0.22	25.4	15.4	0.86	1825	4.00
202734		3.82	115.0	5.95	7.52	0.06	0.11	0.08	0.059	0.15	20.7	12.4	0.50	1370	2.55
202735		6.76	135.5	9.35	3.57	0.07	0.04	0.22	0.068	0.15	32.9	5.0	0.22	3270	4.78
202737		6.50	100.5	6.26	5.32	0.05	0.06	0.12	0.065	0.13	21.3	6.8	0.17	1590	2.60
202738		1.63	42.0	3.46	4.25	<0.05	0.03	0.15	0.033	0.12	5.8	2.0	0.11	1505	3.64
202739		5.19	130.0	7.64	2.43	0.06	0.03	0.40	0.066	0.24	20.6	1.8	0.16	1775	4.11
202740		3.15	47.7	4.47	5.60	<0.05	0.07	0.10	0.047	0.12	18.2	3.9	0.16	792	5.32
202741		5.26	65.2	5.30	3.41	0.07	0.06	0.08	0.051	0.16	47.5	2.9	0.18	2050	5.28
202742		4.53	77.0	5.34	5.34	0.08	0.14	0.07	0.061	0.17	44.2	5.9	0.23	2500	3.46
202743		5.10	150.5	6.77	1.87	0.05	0.04	0.08	0.058	0.25	19.0	2.3	0.12	1805	2.00

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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Page: 3 - C

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
202703		4.18	15.5	2040	53.4	18.8	0.001	0.05	0.55	4.6	2.1	1.7	21.3	0.07	0.50
202704		4.40	8.3	1770	26.8	15.3	<0.001	0.14	0.56	1.0	1.6	2.0	22.8	0.05	0.33
202705		2.91	8.4	2150	26.7	23.3	<0.001	0.11	0.51	0.8	1.3	1.8	13.1	0.01	0.14
202706		4.65	10.4	2020	31.5	24.3	0.001	0.05	0.57	2.2	0.9	2.6	10.0	0.06	0.04
202707		0.91	11.8	2560	16.1	17.0	0.001	0.01	0.29	7.2	0.6	0.7	42.8	0.01	0.02
202708		1.26	9.9	2460	19.9	15.2	<0.001	0.01	0.36	5.1	0.7	0.9	38.0	0.01	0.05
202709		0.59	11.9	2470	16.9	16.3	0.001	0.01	0.26	7.0	0.5	0.6	32.4	<0.01	0.04
202710		0.45	20.0	2790	21.5	13.8	0.001	0.01	0.47	8.8	0.8	0.5	49.7	<0.01	0.04
202711		1.03	12.5	2540	18.8	21.7	0.001	0.04	0.34	4.6	0.6	0.8	27.4	0.01	0.03
202712		1.04	12.3	2540	18.2	21.5	0.001	0.03	0.34	4.8	0.6	0.8	27.9	0.01	0.03
202713		0.11	14.8	2820	17.2	20.0	0.001	0.03	0.30	8.2	0.4	0.3	88.4	<0.01	0.02
202714		0.97	60.8	1370	10.0	11.1	0.001	0.01	0.47	10.7	0.8	0.7	20.5	<0.01	0.02
202715		1.76	57.9	1590	10.4	13.8	0.001	0.02	0.47	6.4	0.6	1.2	17.7	0.01	0.02
202716		1.43	29.2	1700	10.6	13.4	0.001	0.02	0.66	6.7	0.9	0.9	21.7	0.01	0.02
202717		1.05	79.4	1680	14.7	11.9	0.001	0.02	1.59	12.3	2.9	0.6	47.4	0.01	0.05
202718		0.49	16.2	2330	10.2	12.2	<0.001	<0.01	0.45	8.1	0.7	0.5	56.9	0.01	0.02
202719		1.01	23.8	1940	346	12.8	0.001	0.03	1.22	8.4	1.2	0.8	24.3	0.01	0.03
202720		1.08	23.7	1960	368	13.0	0.001	0.02	1.24	8.3	1.2	0.8	24.0	0.01	0.02
202721		0.52	18.5	2000	40.7	12.3	0.001	0.05	1.05	7.7	0.9	0.5	35.8	0.01	0.02
202722		1.03	16.8	1850	82.3	14.6	0.001	0.06	1.74	6.1	1.3	0.7	25.5	0.01	0.02
202723		3.50	16.1	2200	22.6	18.0	0.001	0.06	0.69	2.0	0.9	2.3	11.8	0.04	0.02
202724		2.12	15.9	1910	18.5	17.2	0.001	0.05	0.57	2.5	1.0	1.3	10.6	0.02	0.02
202725		1.25	6.6	2280	8.8	18.5	<0.001	0.15	0.35	0.5	0.5	1.3	19.3	0.01	0.02
202726		0.95	17.4	3220	22.1	25.6	<0.001	0.03	0.54	7.8	0.8	0.9	64.9	0.01	0.02
202727		0.72	9.1	2670	13.9	27.4	<0.001	0.14	0.52	0.8	0.8	1.0	28.0	0.01	0.03
202728		2.02	11.3	2570	12.9	22.5	<0.001	0.13	0.46	1.9	0.6	1.0	31.0	0.03	0.02
202729		0.91	22.7	2460	16.7	21.4	0.001	0.03	0.71	18.7	1.1	0.6	74.7	0.01	0.03
202730		0.60	9.7	2820	17.2	25.2	<0.001	0.12	0.87	2.1	0.6	0.5	28.2	0.01	0.03
202731		1.09	12.5	2250	14.1	15.7	<0.001	0.05	1.12	6.1	0.8	0.6	28.1	0.01	0.02
202732		0.08	40.4	3620	18.6	21.2	<0.001	<0.01	0.77	35.9	0.5	0.7	193.0	<0.01	0.04
202733		0.54	29.1	2980	19.3	15.8	0.001	0.02	0.96	15.6	1.4	0.5	74.0	<0.01	0.03
202734		0.64	19.5	2340	13.9	18.4	0.001	0.02	0.84	11.4	2.0	0.5	45.0	<0.01	0.03
202735		0.59	33.5	2620	37.8	12.8	0.001	0.01	3.78	26.4	1.4	0.4	77.7	0.01	0.03
202737		0.82	15.6	2740	17.5	22.1	<0.001	0.03	1.26	7.8	1.2	0.8	37.0	0.01	0.03
202738		1.07	9.0	2320	10.6	14.1	<0.001	0.13	0.93	1.1	0.6	0.9	29.8	0.01	0.02
202739		0.33	31.2	3610	17.8	14.6	0.001	0.02	2.63	24.1	1.4	0.3	121.0	0.01	0.04
202740		1.32	9.0	1810	22.6	18.4	<0.001	0.08	0.88	1.2	0.8	0.9	11.6	0.02	0.02
202741		1.47	13.7	1770	33.3	13.3	0.001	0.01	0.71	9.1	0.8	0.6	32.9	0.02	0.02
202742		1.80	15.3	1880	35.3	15.9	<0.001	0.01	0.69	8.9	0.9	1.2	28.4	0.02	0.03
202743		0.11	15.0	4240	17.0	15.2	0.001	0.08	0.38	19.9	0.6	0.2	132.0	<0.01	0.01

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 3 - D
Total # Pages: 4 (A - D)
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CERTIFICATE OF ANALYSIS VA07129848

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2
202703		0.026	0.31	1.08	74	0.30	17.00	131
202704		0.029	0.19	1.08	59	0.19	6.92	86
202705		0.012	0.22	1.13	62	0.14	6.99	97
202706		0.023	0.25	1.16	64	0.26	13.65	116
202707		0.020	0.22	0.55	69	0.10	18.90	78
202708		0.018	0.27	0.58	59	0.10	20.2	96
202709		0.012	0.22	0.42	98	0.07	14.25	101
202710		0.015	0.24	0.64	75	0.07	19.35	98
202711		0.015	0.32	0.60	97	0.09	13.00	81
202712		0.015	0.32	0.59	96	0.09	13.35	80
202713		0.007	0.23	0.44	63	0.05	15.60	73
202714		0.017	0.15	0.77	119	0.06	14.50	97
202715		0.022	0.18	1.08	80	0.09	18.40	87
202716		0.010	0.30	1.14	70	0.08	30.0	92
202717		0.005	0.53	0.91	72	0.12	29.6	144
202718		0.027	0.11	0.89	79	0.22	19.30	66
202719		0.020	0.29	0.81	76	0.12	19.60	358
202720		0.021	0.31	0.84	78	0.14	19.85	379
202721		0.008	0.31	1.07	63	0.11	19.55	228
202722		0.007	1.06	1.09	55	0.12	23.8	176
202723		0.018	0.34	1.24	66	0.23	16.10	134
202724		0.013	0.28	0.94	70	0.16	13.85	107
202725		0.008	0.16	1.01	58	0.15	5.01	54
202726		0.016	0.42	0.75	129	0.17	13.30	93
202727		0.007	0.21	0.74	97	0.14	3.47	95
202728		0.009	0.36	0.76	107	0.16	4.46	76
202729		0.005	0.33	0.76	132	0.19	25.2	87
202730		0.005	0.26	0.58	93	0.15	4.94	72
202731		0.006	0.44	0.54	98	0.15	11.35	54
202732		0.016	0.87	0.63	265	0.36	20.6	109
202733		0.021	0.32	0.62	114	0.23	21.1	107
202734		0.006	0.30	0.60	112	0.14	17.95	101
202735		0.006	0.31	0.69	130	0.28	41.6	119
202737		0.006	0.45	0.86	106	0.22	21.9	103
202738		<0.005	0.19	0.57	64	0.15	3.03	79
202739		<0.005	0.80	0.66	103	0.20	21.6	107
202740		0.007	0.29	0.67	60	0.12	8.20	72
202741		0.008	0.26	0.65	50	0.11	28.5	95
202742		0.018	0.20	0.80	55	0.16	28.2	107
202743		<0.005	0.34	0.58	71	0.07	20.4	105

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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Page: 4 - A

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CERTIFICATE OF ANALYSIS VA07129848

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
202744		0.32	0.010	0.09	1.01	35.2	<0.2	<10	430	1.81	0.07	2.35	0.14	43.4	34.7	8
202745		0.34	0.006	0.11	1.09	38.7	<0.2	<10	430	1.72	0.06	1.33	0.19	56.0	40.7	3
202746		0.40	0.008	0.32	1.87	15.3	<0.2	<10	310	1.25	0.09	0.91	0.38	45.3	30.4	17
202747		0.48	0.006	0.24	1.49	10.7	<0.2	<10	320	1.35	0.10	1.77	0.30	49.5	26.8	11
202748		0.38	0.005	0.22	1.96	11.5	<0.2	<10	470	1.12	0.09	0.88	0.35	47.4	31.2	20
202749		0.66	<0.005	0.13	1.84	7.0	<0.2	<10	210	1.10	0.10	0.62	0.24	47.7	20.6	12
202750		0.06	<0.005	<0.01	0.02	0.1	<0.2	<10	10	<0.05	<0.01	0.01	0.01	1.16	0.1	<1
202751		0.56	<0.005	0.23	1.34	14.9	<0.2	<10	320	1.46	0.16	0.89	0.42	57.2	22.7	9
202752		0.16	0.008	0.33	1.15	11.0	<0.2	<10	260	0.81	0.11	0.28	2.11	20.2	12.6	10
202753		0.34	0.005	0.36	2.05	13.2	<0.2	<10	210	1.53	0.15	0.09	0.68	42.8	17.1	12
202754		0.28	<0.005	0.24	2.43	10.0	<0.2	<10	150	1.36	0.14	0.07	0.47	39.6	11.5	13
202755		0.18	<0.005	0.17	1.17	7.2	<0.2	<10	670	0.87	0.11	0.64	5.52	16.85	11.1	12
202756		0.28	0.015	0.20	3.19	18.5	<0.2	<10	350	1.69	0.14	0.22	1.93	85.4	25.9	36
202757		0.18	0.009	0.15	1.23	25.0	<0.2	<10	450	0.87	0.13	0.93	1.73	25.1	17.3	16
202758		0.18	0.009	0.14	1.73	18.6	<0.2	<10	370	1.20	0.11	0.31	1.64	28.4	21.6	22
202759		0.42	0.006	0.21	1.37	15.0	<0.2	<10	220	1.21	0.09	0.42	1.59	51.1	22.2	9
202761		0.46	0.015	0.17	0.93	38.7	<0.2	<10	300	1.04	0.08	0.42	0.26	33.8	26.2	5
202762		0.32	0.012	0.22	1.69	24.9	<0.2	<10	230	1.04	0.23	0.17	0.39	30.4	22.7	16
202763		0.22	<0.005	0.16	1.09	15.2	<0.2	<10	270	0.76	0.10	0.27	0.37	11.90	9.8	9
202764		0.20	<0.005	0.15	1.22	12.8	<0.2	<10	440	0.80	0.11	0.33	0.31	12.70	15.4	11
202765		0.32	<0.005	0.18	1.71	11.1	<0.2	<10	260	0.92	0.14	0.34	0.18	21.3	13.2	23
202766		0.18	<0.005	0.12	1.31	9.3	<0.2	<10	350	0.85	0.13	0.43	0.37	18.05	22.6	16
202767		0.40	0.011	0.07	2.21	17.4	<0.2	<10	170	1.50	0.13	0.25	0.18	45.5	17.4	15
202768		0.40	0.020	0.18	2.06	12.9	<0.2	<10	550	0.96	0.09	3.99	0.50	38.2	25.1	15
202769		0.16	<0.005	0.30	1.44	11.7	<0.2	<10	140	0.64	0.07	0.11	0.20	14.60	6.6	10
202770		0.14	<0.005	0.27	1.42	12.2	<0.2	<10	150	0.62	0.07	0.12	0.21	13.85	7.1	10
202771		0.16	<0.005	0.18	0.76	11.4	<0.2	<10	200	0.65	0.07	0.40	0.37	11.50	14.9	9
202772		0.28	0.006	0.06	1.82	14.1	<0.2	<10	300	1.45	0.07	0.47	0.28	59.2	31.1	7
202773		0.48	0.008	0.20	2.02	20.8	<0.2	<10	410	1.34	0.08	1.78	0.27	42.5	29.8	19

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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North Vancouver BC V7J 2C1

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Page: 4 - B

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CERTIFICATE OF ANALYSIS VA07129848

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
202744		4.78	130.5	5.91	2.84	0.05	0.06	0.19	0.049	0.21	20.8	5.9	0.19	1480	2.49
202745		3.76	165.5	6.44	3.48	0.07	0.04	0.18	0.051	0.19	26.3	6.2	0.24	2020	2.68
202746		1.87	125.0	5.99	5.88	0.08	0.05	0.14	0.051	0.15	21.7	14.4	0.73	1420	3.36
202747		2.11	124.0	5.53	5.03	0.06	0.07	0.13	0.052	0.18	22.8	9.0	0.57	1335	2.65
202748		1.52	117.0	6.20	7.25	0.08	0.07	0.11	0.051	0.15	22.6	13.0	0.97	1495	2.26
202749		1.18	63.4	5.14	7.24	0.06	0.07	0.03	0.035	0.11	24.4	11.9	0.84	1215	1.97
202750		<0.05	0.8	0.05	0.05	<0.05	0.03	<0.01	<0.005	<0.01	0.6	0.1	0.01	12	<0.05
202751		1.63	82.8	5.50	4.98	0.06	0.14	0.11	0.044	0.17	28.3	7.2	0.54	1500	5.39
202752		1.08	57.2	3.95	4.66	<0.05	0.03	0.07	0.034	0.16	9.1	3.9	0.21	905	7.33
202753		2.19	63.8	4.58	7.18	<0.05	0.09	0.10	0.059	0.13	20.8	7.2	0.21	1450	5.24
202754		2.23	55.0	3.46	8.15	<0.05	0.05	0.06	0.058	0.13	18.4	8.9	0.26	823	4.77
202755		1.29	36.6	3.25	6.30	<0.05	0.03	0.05	0.035	0.18	9.8	6.0	0.30	1145	3.81
202756		3.69	137.0	5.53	8.84	0.06	0.07	0.08	0.061	0.25	34.2	21.5	0.83	1175	4.62
202757		1.58	78.7	4.29	4.50	<0.05	0.05	0.07	0.038	0.17	12.0	6.0	0.39	1520	4.68
202758		1.87	82.8	4.44	5.64	<0.05	0.04	0.07	0.044	0.15	12.8	10.6	0.46	1340	5.11
202759		2.58	87.9	4.36	3.78	0.05	0.07	0.08	0.047	0.13	26.8	5.5	0.23	1655	3.68
202761		6.03	152.5	5.82	1.93	<0.05	0.07	0.08	0.047	0.14	18.7	2.3	0.11	1670	2.28
202762		2.05	98.8	5.45	5.29	<0.05	0.08	0.06	0.050	0.10	15.4	6.7	0.27	1180	5.26
202763		2.20	42.2	3.83	5.36	<0.05	0.02	0.06	0.036	0.15	7.2	3.3	0.16	1385	3.37
202764		1.68	54.5	4.59	7.97	<0.05	0.02	0.06	0.037	0.13	7.3	3.3	0.16	1790	3.94
202765		2.50	40.3	4.80	11.20	<0.05	0.03	0.05	0.051	0.10	11.2	7.1	0.30	1390	3.61
202766		1.38	35.6	5.16	12.95	<0.05	0.04	0.11	0.052	0.10	7.5	2.7	0.18	7020	5.41
202767		4.16	85.3	5.06	8.64	0.05	0.04	0.07	0.063	0.12	22.1	9.4	0.40	1080	3.36
202768		2.46	110.5	5.39	7.46	0.05	0.05	0.11	0.047	0.26	20.0	9.2	1.02	1415	2.77
202769		2.64	32.9	2.78	5.43	<0.05	0.03	0.09	0.034	0.10	8.9	4.1	0.16	375	2.93
202770		2.75	33.3	2.78	5.09	<0.05	0.03	0.09	0.032	0.10	8.3	4.2	0.16	419	2.82
202771		1.87	44.0	3.38	4.53	<0.05	0.03	0.06	0.032	0.11	5.7	1.9	0.10	2290	3.77
202772		5.09	151.0	6.69	5.34	0.06	0.05	0.06	0.061	0.14	26.9	10.1	0.51	2340	2.40
202773		5.97	134.0	6.23	6.26	0.06	0.08	0.22	0.058	0.18	22.8	10.9	0.74	1365	2.89

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 4 - C

Total # Pages: 4 (A - D)

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CERTIFICATE OF ANALYSIS VA07129848

Sample Description	Method Analyte Units LOR	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2
202744		0.24	14.8	2920	21.6	12.8	0.001	0.07	0.96	13.6	0.8	0.3	115.0	<0.01	0.01	2.1
202745		0.09	13.0	3780	22.4	11.6	0.001	0.18	1.00	14.4	1.0	0.3	112.0	<0.01	0.02	2.3
202746		0.08	25.0	2790	17.1	8.6	0.005	0.13	1.00	10.5	5.7	0.3	62.0	<0.01	0.05	1.8
202747		0.27	15.9	3150	22.6	10.0	0.001	0.15	0.64	9.6	1.4	0.4	82.0	<0.01	0.04	2.0
202748		0.13	23.8	2920	21.0	8.0	0.003	0.16	0.63	9.8	1.8	0.3	56.7	<0.01	0.05	1.5
202749		0.21	12.8	1850	20.3	7.1	0.001	0.02	0.43	5.8	0.9	0.3	38.5	<0.01	0.02	1.5
202750		<0.05	0.3	20	0.5	0.1	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	0.6	<0.01	<0.01	0.3
202751		0.26	16.3	2060	40.9	9.1	0.001	0.21	1.03	6.3	1.2	0.4	60.2	0.01	0.03	2.3
202752		0.81	11.9	2500	19.6	20.3	<0.001	0.13	0.82	0.6	0.8	0.5	32.4	0.01	0.05	<0.2
202753		1.78	12.4	2670	23.4	21.4	0.001	0.10	0.76	1.3	1.0	1.1	13.3	0.03	0.05	0.2
202754		1.80	10.4	2370	18.8	23.2	<0.001	0.07	0.57	1.0	1.0	1.1	11.6	0.02	0.04	<0.2
202755		1.28	10.0	2760	13.0	29.8	<0.001	0.14	0.59	0.4	0.6	1.0	102.0	0.01	0.04	<0.2
202756		0.96	38.0	1360	22.8	24.2	0.001	0.02	1.95	12.1	1.3	0.6	29.3	<0.01	0.08	1.1
202757		0.93	13.7	2860	24.1	21.6	<0.001	0.14	1.12	2.3	0.7	0.4	74.2	0.01	0.13	<0.2
202758		1.17	19.8	1750	23.5	17.0	<0.001	0.10	1.52	2.3	0.9	0.5	36.9	<0.01	0.09	<0.2
202759		1.41	15.3	2650	17.9	13.8	0.001	0.10	1.21	3.6	1.2	0.5	40.2	0.01	0.04	0.3
202761		0.47	14.2	2100	14.9	11.6	<0.001	0.03	1.67	11.1	1.0	0.2	30.3	0.01	0.04	0.8
202762		0.88	15.2	2550	26.9	17.4	<0.001	0.11	1.02	2.6	1.0	0.4	18.8	0.01	0.15	0.3
202763		1.02	9.3	2200	11.7	26.9	<0.001	0.13	0.64	0.5	0.5	0.8	34.1	<0.01	0.03	<0.2
202764		0.92	9.8	2030	16.5	24.3	<0.001	0.12	0.75	0.3	0.7	1.2	43.5	0.01	0.03	<0.2
202765		3.17	16.6	1700	15.1	22.0	<0.001	0.11	0.61	0.6	0.6	2.2	28.3	0.01	0.03	<0.2
202766		2.59	10.5	2090	16.3	21.6	<0.001	0.09	0.90	1.1	0.7	2.6	20.0	0.01	0.04	<0.2
202767		2.50	15.5	2140	19.8	18.9	<0.001	0.04	0.77	5.2	0.8	1.3	23.6	0.01	0.04	0.3
202768		0.22	16.6	2110	19.4	13.8	0.002	0.40	0.85	12.2	0.9	0.3	127.5	<0.01	0.08	1.8
202769		1.01	6.6	2390	10.6	19.2	<0.001	0.10	0.50	0.3	0.7	0.7	12.5	0.01	0.02	<0.2
202770		0.79	6.6	2340	10.3	21.1	<0.001	0.10	0.51	0.3	0.7	0.6	13.4	<0.01	0.02	<0.2
202771		0.77	8.3	2540	13.1	14.5	<0.001	0.14	0.78	0.5	0.7	0.9	26.8	0.01	0.03	<0.2
202772		0.42	12.6	2830	24.4	12.9	<0.001	0.03	0.73	14.5	0.7	0.3	44.1	<0.01	0.02	1.6
202773		0.94	22.3	2520	18.5	15.3	0.001	0.04	1.14	17.8	0.9	0.4	100.0	<0.01	0.03	1.9

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07129848

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2
								0.5
202744		<0.005	0.34	0.52	77	0.05	16.90	95
202745		<0.005	0.35	0.49	96	0.07	20.7	100
202746		<0.005	0.19	0.43	83	0.06	19.10	127
202747		0.006	0.16	0.48	79	0.05	18.70	107
202748		0.014	0.13	0.37	105	0.05	19.20	120
202749		0.015	0.11	0.42	92	0.05	14.75	91
202750		<0.005	<0.02	0.06	<1	<0.05	0.63	2
202751		0.008	0.24	0.49	66	0.07	16.85	109
202752		0.007	0.21	0.63	60	0.09	3.56	104
202753		0.010	0.27	0.89	66	0.13	13.95	105
202754		0.012	0.27	0.83	67	0.13	11.30	100
202755		0.007	0.15	0.55	64	0.11	4.19	137
202756		0.027	0.73	0.88	131	0.17	20.2	175
202757		0.009	0.31	0.48	74	0.19	6.92	147
202758		0.012	0.45	0.59	89	0.17	7.35	166
202759		0.008	0.20	0.58	59	0.18	21.2	109
202761		<0.005	0.20	0.48	60	0.14	22.0	99
202762		0.007	0.30	0.68	87	0.20	6.77	104
202763		0.011	0.11	0.57	63	0.10	2.91	105
202764		0.009	0.12	0.57	83	0.11	2.49	107
202765		0.024	0.12	0.76	88	0.14	5.31	98
202766		0.073	0.20	0.68	113	0.10	3.49	128
202767		0.020	0.18	0.88	93	0.19	14.45	100
202768		0.052	0.22	0.59	122	0.13	15.15	97
202769		<0.005	0.17	0.56	66	0.11	3.64	52
202770		<0.005	0.17	0.52	67	0.12	3.35	53
202771		0.005	0.13	0.55	64	0.14	3.02	84
202772		<0.005	0.25	0.46	112	0.15	21.6	93
202773		0.017	0.24	0.48	112	0.13	20.8	101

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).



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CERTIFICATE TR07097566

Project: Voigtberg

P.O. No.: BCG07-01

This report is for 219 Sediment samples submitted to our lab in Terrace, BC, Canada on 4-SEP-2007.

The following have access to data associated with this certificate:

HENRY AWMACK
RORY KUTLUOGLU

A BROWN
FREEMAN SMITH

QUITY ENGINEERING GENERAL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: EQUITY ENGINEERING LTD.
ATTN: EQUITY ENGINEERING GENERAL
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VANCOUVER BC V6C 1G8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Total # Pages: 7 (A - C)

Finalized Date: 18-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
B358535		0.42	0.007	<0.2	1.45	16	<10	550	3.0	<2	1.06	1.2	72	6	191	6.04
B358536		0.36	0.005	<0.2	1.66	19	<10	540	2.2	<2	1.20	1.0	27	1	138	4.30
B358537		0.44	0.005	<0.2	1.51	11	<10	480	2.1	<2	1.03	<0.5	26	3	112	5.37
B358538		0.32	0.017	0.4	0.43	45	<10	100	0.8	<2	0.15	0.5	10	<1	155	11.45
B358539		0.30	0.084	0.3	2.26	24	10	620	1.9	2	1.40	0.6	47	4	268	8.56
B358540		0.36	0.050	0.2	2.41	23	<10	590	1.9	3	1.45	<0.5	51	4	298	9.11
B358541		0.36	0.061	1.1	0.26	226	<10	120	<0.5	4	0.04	0.6	3	<1	37	5.23
B358542		0.32	0.242	2.3	0.78	219	<10	110	1.9	<2	0.12	1.7	13	5	175	4.22
B358543		0.42	NSS	1.6	0.31	173	<10	220	1.7	2	0.14	1.8	7	2	130	3.53
B358544		0.36	0.049	0.8	2.20	106	<10	360	2.6	4	0.93	2.9	108	<1	341	12.60
M275209		0.46	0.424	5.6	0.72	397	<10	80	1.1	<2	0.16	1.0	18	<1	169	9.29
M275210		0.50	0.288	3.8	0.89	684	<10	200	2.4	3	0.32	1.8	80	<1	420	14.25
M275211		0.52	0.252	2.6	0.41	327	<10	90	1.0	2	0.30	0.9	38	1	197	10.30
M275212		0.54	0.552	2.8	1.00	245	<10	250	3.4	2	0.05	1.8	27	3	298	7.10
M275213		0.44	0.114	0.4	0.38	217	<10	220	2.6	<2	0.15	0.6	7	1	119	2.93
M275214		0.38	0.321	1.4	0.67	340	<10	840	2.4	3	0.59	1.0	91	1	280	11.55
M275215		0.34	0.294	1.7	0.52	590	<10	540	1.6	2	0.98	2.2	28	13	164	9.87
M275216		0.36	0.213	2.3	0.77	188	<10	120	1.0	<2	0.07	0.5	19	1	157	10.35
M275217		0.36	0.496	1.6	0.74	402	<10	190	2.4	<2	0.55	1.1	57	1	306	13.40
M275218		0.36	0.383	2.1	0.72	227	<10	160	1.3	<2	0.28	0.5	38	3	211	11.65
M275219		0.36	0.240	5.7	0.89	359	<10	260	2.3	<2	0.79	2.5	78	5	287	13.15
M275220		0.32	0.226	1.1	0.92	450	<10	190	3.0	2	0.31	<0.5	84	<1	346	14.5
M275221		0.48	0.452	3.3	0.80	437	<10	30	2.3	4	0.62	0.5	70	<1	417	17.0
M275222		0.48	0.369	1.8	0.70	385	<10	220	1.9	<2	0.41	1.0	52	1	278	12.20
M275223		0.58	0.335	2.6	0.76	359	<10	220	2.1	2	0.50	1.5	49	1	290	12.50
M275224		0.58	0.237	2.4	1.02	257	<10	90	1.0	3	0.12	0.6	19	1	163	10.90
M275225		0.50	0.217	2.6	1.13	270	<10	80	1.2	3	0.21	0.6	20	1	175	11.90
M275226		0.54	0.407	5.3	0.60	460	<10	190	2.1	6	0.54	1.4	100	3	345	14.15
M275227		0.40	0.748	2.7	2.04	440	<10	1310	2.8	4	0.74	1.8	135	8	533	12.80
M275228		0.44	0.262	1.4	2.20	264	<10	1710	2.2	2	1.11	1.2	97	19	321	10.85
M275229		0.32	0.233	1.3	2.11	309	<10	1140	1.8	3	0.65	0.5	67	42	216	10.40
M275230		0.38	0.402	2.5	0.89	576	<10	570	1.5	<2	0.25	1.5	90	14	242	11.70
M275231		0.30	0.290	1.6	0.69	284	<10	570	1.5	3	0.35	0.9	54	2	273	11.65
M275232		0.34	0.297	2.5	0.51	576	<10	410	1.4	2	1.12	1.5	62	4	180	14.15
M275233		0.30	0.364	2.5	0.83	361	<10	90	1.3	3	0.32	1.1	71	1	291	13.75
M275234		0.34	0.200	1.8	0.72	205	<10	540	2.0	4	0.42	1.1	53	3	192	12.10
M275235		0.06	<0.005	<0.2	0.01	3	<10	10	<0.5	<2	0.01	<0.5	1	1	2	0.08
M275236		0.48	0.089	1.7	0.57	288	<10	1370	1.2	3	0.96	0.7	51	4	140	12.25
M275237		0.46	0.116	1.1	0.50	131	<10	490	1.5	2	0.96	0.6	53	6	123	10.40
M275238		0.44	0.322	3.6	0.54	534	<10	470	1.5	3	0.84	1.4	62	4	262	12.40

Comments: NSS is non-sufficient sample.



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Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
B358535		<10	1	0.43	30	0.38	4640	8	0.01	34	3310	26	0.35	<2	19
B358536		<10	1	0.51	30	0.40	1720	4	0.01	13	3930	31	0.05	<2	17
B358537		<10	1	0.39	60	0.38	3400	10	0.02	11	3150	36	0.16	<2	13
B358538		<10	1	1.00	40	0.06	368	262	0.08	2	6160	121	2.01	<2	11
B358539		10	1	0.36	20	1.16	3550	7	0.03	20	5250	35	0.39	<2	30
B358540		10	1	0.36	20	1.25	3860	7	0.02	20	5670	31	0.37	<2	31
B358541		<10	<1	0.64	20	0.02	178	10	0.05	1	2810	236	1.39	5	6
B358542		<10	2	0.09	80	0.13	1750	11	0.02	4	880	283	0.11	11	3
B358543		<10	1	0.09	80	0.03	1590	9	<0.01	2	530	114	0.28	8	3
B358544		<10	1	0.21	30	0.87	6550	8	0.01	35	5410	149	0.56	5	23
M275209		<10	1	0.87	30	0.09	1230	37	0.04	5	4190	67	1.82	8	8
M275210		<10	2	0.23	20	0.04	4050	22	0.01	23	3930	68	1.43	20	28
M275211		<10	2	0.49	20	0.07	1920	49	0.03	14	3740	62	1.65	13	16
M275212		<10	2	0.15	70	0.11	3130	22	0.03	13	1560	118	0.29	11	7
M275213		<10	1	0.11	70	0.04	1590	6	0.01	3	360	45	0.09	5	2
M275214		<10	3	0.17	50	0.04	7340	15	0.02	34	2940	70	0.24	8	18
M275215		<10	1	0.14	50	0.10	3500	80	0.01	73	4550	86	0.33	18	14
M275216		<10	<1	0.59	30	0.07	832	20	0.06	7	3580	71	1.41	5	12
M275217		<10	1	0.27	30	0.10	4660	19	0.02	26	3660	48	1.18	10	34
M275218		<10	<1	0.52	20	0.22	1840	26	0.05	18	4130	43	1.42	5	20
M275219		<10	4	0.20	40	0.13	4430	26	0.02	57	4020	87	1.12	29	24
M275220		<10	2	0.24	30	0.18	4870	9	0.01	29	4660	36	1.32	19	40
M275221		<10	1	0.15	50	0.12	6310	36	0.01	33	2430	64	3.22	16	50
M275222		<10	2	0.29	30	0.16	3300	23	0.02	19	4060	46	0.98	12	22
M275223		<10	1	0.24	30	0.14	3820	19	0.02	19	3540	56	0.96	12	31
M275224		<10	2	0.84	20	0.07	674	38	0.09	6	4090	50	2.05	4	14
M275225		<10	<1	0.91	30	0.09	838	83	0.10	8	4460	51	2.21	5	16
M275226		<10	3	0.17	60	0.07	15900	58	0.01	65	3170	100	0.95	22	35
M275227		<10	2	0.18	60	0.88	12500	22	0.02	62	2910	84	0.17	10	35
M275228		10	2	0.13	50	1.54	10950	33	<0.01	57	2660	84	0.08	6	36
M275229		10	<1	0.16	50	1.52	6220	32	0.01	48	2950	54	0.10	8	39
M275230		<10	2	0.15	50	0.18	5630	53	0.01	50	3720	72	0.28	32	34
M275231		<10	2	0.20	40	0.10	2950	45	0.02	27	4400	81	0.36	15	22
M275232		<10	2	0.11	50	0.09	7420	131	0.01	40	3310	119	0.67	16	30
M275233		<10	1	0.26	60	0.32	4280	34	0.01	26	4210	67	0.93	11	33
M275234		<10	1	0.12	50	0.11	4110	44	0.01	34	4010	79	0.39	7	22
M275235		<10	1	<0.01	<10	<0.01	15	1	<0.01	<1	40	<2	<0.01	<2	<1
M275236		<10	1	0.09	40	0.05	2940	16	0.01	30	4710	67	0.12	13	24
M275237		<10	<1	0.10	40	0.07	3760	10	0.01	29	3670	64	0.25	7	25
M275238		<10	2	0.08	80	0.06	6940	42	0.01	31	3100	90	0.49	21	25

Comments: NSS is non-sufficient sample.



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Finalized Date: 18-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
B358535		<20	0.04	<10	<10	65	<10	254
B358536		<20	0.05	<10	<10	83	<10	307
B358537		<20	0.03	<10	<10	72	<10	108
B358538		<20	0.01	10	<10	72	<10	356
B358539		<20	0.05	10	<10	198	<10	144
B358540		<20	0.04	<10	<10	205	<10	152
B358541		<20	<0.01	10	<10	21	<10	29
B358542		<20	0.04	<10	<10	34	<10	383
B358543		<20	0.01	10	<10	21	<10	335
B358544		<20	<0.01	10	<10	138	<10	388
M275209		<20	0.01	10	<10	42	<10	234
M275210		<20	0.01	10	<10	56	<10	363
M275211		<20	0.01	10	<10	63	<10	161
M275212		<20	0.03	10	<10	41	<10	366
M275213		<20	0.01	<10	<10	20	<10	97
M275214		<20	<0.01	<10	<10	50	<10	198
M275215		<20	0.01	10	<10	59	<10	501
M275216		<20	0.01	<10	<10	42	<10	98
M275217		<20	0.01	10	<10	108	<10	183
M275218		<20	0.01	<10	<10	92	<10	150
M275219		<20	0.01	10	<10	65	<10	350
M275220		<20	0.02	10	<10	102	<10	95
M275221		<20	0.02	10	<10	108	<10	98
M275222		<20	0.02	10	<10	97	<10	154
M275223		<20	0.02	10	<10	103	<10	251
M275224		<20	0.01	10	<10	49	<10	86
M275225		<20	0.01	10	<10	54	<10	94
M275226		<20	0.01	10	<10	101	<10	273
M275227		<20	0.01	10	<10	141	<10	340
M275228		<20	<0.01	10	<10	163	10	238
M275229		<20	0.01	10	<10	197	<10	132
M275230		<20	0.01	10	<10	97	<10	279
M275231		<20	0.01	10	<10	67	<10	194
M275232		<20	0.01	10	<10	84	<10	170
M275233		<20	0.01	10	<10	82	<10	208
M275234		<20	0.02	10	<10	55	<10	197
M275235		<20	<0.01	<10	<10	<1	<10	3
M275236		<20	<0.01	10	<10	65	<10	66
M275237		<20	0.01	<10	<10	75	<10	94
M275238		<20	0.01	10	<10	70	<10	270

Comments: NSS is non-sufficient sample.



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212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 3 - A

Total # Pages: 7 (A - C)

Finalized Date: 18-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
M275239		0.38	0.331	3.2	0.54	496	<10	260	1.3	<2	0.74	1.8	70	2	284	14.25
M275240		0.38	0.286	1.0	1.18	324	<10	840	2.9	4	0.71	0.8	110	7	298	11.50
M275241		0.44	0.234	1.5	1.49	899	<10	1030	1.9	5	0.69	0.6	75	13	240	13.00
M275242		0.40	0.341	3.0	1.07	429	<10	580	1.6	4	0.30	1.5	89	12	296	11.65
M275243		0.50	0.463	8.4	1.22	396	<10	600	1.8	2	0.34	1.5	77	20	325	12.20
M275244		0.46	0.323	1.9	0.86	238	<10	680	1.5	<2	0.40	1.2	75	3	257	11.70
M275245		0.28	0.313	1.6	0.77	345	<10	280	1.7	<2	0.39	1.0	71	1	296	12.30
M275246		0.24	0.314	2.0	0.73	359	<10	510	1.5	5	0.48	1.4	75	3	289	12.75
M275247		0.22	0.263	1.8	1.01	246	<10	600	1.4	4	0.24	1.4	76	6	302	11.35
M275248		0.20	0.437	2.8	1.30	312	<10	610	1.7	5	0.21	1.5	81	10	323	11.50
M275249		0.24	0.435	2.7	1.36	312	<10	670	1.7	7	0.21	1.5	79	10	320	12.20
M275250		0.28	0.388	3.3	1.21	506	<10	830	1.7	4	0.37	1.0	76	9	281	12.05
202501		0.24	0.147	1.5	0.60	187	<10	350	1.3	5	0.60	0.7	38	3	187	7.84
202502		0.24	0.181	2.5	1.11	288	<10	810	1.9	3	0.59	1.0	62	7	257	10.45
202503		0.24	0.332	2.3	1.20	423	<10	750	2.0	3	0.49	2.0	62	10	297	11.85
202504		0.28	0.898	28.7	1.00	845	<10	80	2.3	3	2.47	22.0	48	4	291	13.05
202505		0.30	0.227	1.7	0.87	289	<10	650	1.5	2	0.19	1.1	78	4	328	11.40
202506		0.24	0.217	1.4	1.08	293	<10	910	1.6	2	0.38	1.0	72	7	311	11.55
202507		0.22	0.563	2.9	0.74	387	<10	520	1.5	4	0.19	0.8	93	<1	499	12.75
202508		0.26	0.178	1.6	0.92	253	<10	600	1.6	<2	0.66	0.6	65	6	271	10.50
202509		0.22	0.253	1.8	1.07	337	<10	810	1.9	2	0.47	1.7	58	9	270	11.15
202510		0.26	0.349	2.1	1.50	297	<10	730	2.2	3	0.51	1.4	42	8	272	10.95
202511		0.30	NSS	2.3	1.53	297	<10	710	2.2	<2	0.47	1.4	41	8	295	11.00
202512		0.24	0.221	2.0	0.74	275	<10	610	1.3	4	0.26	1.3	65	5	281	11.30
202513		0.22	0.493	1.2	0.77	224	<10	300	0.9	6	0.02	<0.5	45	<1	334	13.65
202514		0.26	0.362	1.2	0.79	365	<10	170	1.3	10	0.34	3.7	79	<1	852	11.90
202515		0.42	0.192	1.9	0.46	687	<10	400	1.0	8	0.45	0.9	83	2	856	11.45
202516		0.22	0.271	2.1	0.81	239	<10	490	0.9	4	0.03	1.2	72	5	336	12.75
202517		0.28	0.262	2.6	1.06	224	<10	620	1.1	9	0.43	2.9	106	4	1540	14.75
202518		0.10	<0.005	<0.2	0.01	<2	<10	10	<0.5	<2	0.01	<0.5	<1	<1	1	0.02
202519		0.30	0.058	0.7	0.71	76	<10	300	1.9	<2	0.67	0.5	38	4	134	8.16
202520		0.32	0.117	1.0	0.63	116	<10	360	1.9	<2	1.03	<0.5	40	8	127	8.70
202521		0.26	0.079	1.9	0.48	166	<10	360	1.5	<2	3.75	<0.5	32	8	114	7.12
202522		0.34	0.154	2.1	1.11	193	<10	250	1.9	<2	0.16	0.9	79	3	210	12.70
202523		0.30	0.130	4.4	0.52	339	<10	380	1.4	<2	1.33	1.2	36	3	178	13.60
202524		0.32	0.636	3.8	0.95	444	<10	720	1.7	<2	0.26	3.2	70	4	421	13.5
202525		0.24	0.178	2.6	0.90	325	<10	410	1.6	<2	0.57	2.0	59	3	247	13.9
202526		0.28	0.285	3.2	0.84	305	<10	450	1.6	2	0.44	1.9	69	4	284	13.25
202527		0.32	0.254	2.6	0.58	302	<10	460	1.4	4	0.35	1.5	64	2	283	11.90
202528		0.34	0.237	2.6	0.53	277	<10	420	1.2	3	0.47	1.4	62	1	310	11.25

Comments: NSS is non-sufficient sample.



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212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 3 - B

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Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
M275239		<10	2	0.13	90	0.13	6940	48	0.01	31	3710	94	0.81	16	36
M275240		<10	<1	0.24	60	0.46	8880	26	0.01	48	2740	59	0.31	10	34
M275241		10	2	0.13	130	1.20	10150	50	0.01	47	2760	63	0.22	28	37
M275242		<10	<1	0.15	50	0.48	6740	46	0.01	51	3350	93	0.27	18	30
M275243		10	2	0.15	50	0.58	6490	50	0.01	55	3230	138	0.38	23	43
M275244		<10	1	0.15	40	0.22	5560	35	0.01	38	3730	72	0.31	13	26
M275245		<10	1	0.23	40	0.19	3510	24	0.02	25	3800	54	0.70	9	31
M275246		<10	2	0.20	40	0.16	4810	45	0.01	37	3980	66	0.46	17	28
M275247		<10	1	0.13	50	0.52	6190	31	0.01	38	3830	61	0.27	9	29
M275248		<10	2	0.15	70	0.46	6750	33	0.01	40	3920	98	0.24	13	26
M275249		<10	1	0.16	70	0.47	7080	34	0.01	46	3990	96	0.25	13	28
M275250		<10	1	0.14	90	0.71	7150	55	0.01	42	3040	83	0.26	18	29
202501		<10	1	0.20	30	0.25	2320	14	0.01	20	2830	40	0.49	6	15
202502		<10	<1	0.22	50	0.48	5190	29	0.01	36	3120	50	0.20	10	26
202503		<10	2	0.18	90	0.54	7160	38	0.01	35	2960	131	0.33	13	29
202504		<10	3	0.14	870	0.51	8620	46	0.02	28	2480	1180	0.96	31	24
202505		<10	1	0.15	140	0.30	8500	69	0.01	34	3680	79	0.31	8	25
202506		<10	<1	0.17	110	0.46	7140	54	0.01	34	3550	74	0.31	8	24
202507		<10	2	0.11	90	0.08	6780	88	<0.01	23	4730	108	0.21	7	24
202508		<10	1	0.18	30	0.46	5010	20	0.01	31	3020	47	0.39	9	22
202509		<10	1	0.18	70	0.44	5170	31	0.01	32	2920	100	0.24	11	25
202510		<10	1	0.19	110	0.44	3320	30	0.01	25	2950	104	0.13	8	19
202511		<10	1	0.19	110	0.45	3350	30	0.01	23	2940	97	0.13	8	19
202512		<10	1	0.15	100	0.24	5860	47	0.01	32	3570	73	0.38	8	25
202513		<10	1	0.33	230	0.17	2530	94	0.01	12	6550	144	0.63	5	29
202514		<10	1	0.25	740	0.19	5480	229	0.01	22	5010	649	0.55	21	26
202515		<10	4	0.11	300	0.04	3610	337	<0.01	13	6500	830	0.45	71	23
202516		<10	3	0.11	130	0.48	4960	84	<0.01	24	4750	111	0.44	7	36
202517		<10	1	0.13	890	0.56	11100	689	0.01	44	4720	941	0.36	4	34
202518		<10	<1	<0.01	<10	<0.01	<5	<1	<0.01	1	20	<2	<0.01	<2	<1
202519		<10	<1	0.14	20	0.11	2080	4	0.01	22	3520	28	0.28	6	23
202520		<10	<1	0.16	30	0.08	2290	6	0.01	28	3950	40	0.61	8	27
202521		<10	<1	0.12	30	0.11	2700	24	0.01	28	3310	42	0.87	10	19
202522		<10	1	0.14	40	0.45	6840	21	<0.01	32	5010	69	0.24	13	42
202523		<10	2	0.28	40	0.32	4180	49	0.01	24	3060	81	1.10	22	22
202524		<10	1	0.13	290	0.55	7500	164	<0.01	32	3880	165	0.42	18	36
202525		<10	1	0.33	40	0.28	4260	64	0.01	33	4270	89	0.78	23	33
202526		<10	<1	0.20	60	0.46	5450	86	0.01	37	3930	113	0.81	16	35
202527		<10	1	0.15	140	0.18	4760	84	<0.01	29	4150	176	0.59	19	32
202528		<10	<1	0.16	160	0.22	4070	83	<0.01	29	4090	154	0.75	17	30

Comments: NSS is non-sufficient sample.



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 3 - C

Total # Pages: 7 (A - C)

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Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
M275239		<20	0.01	10	<10	94	<10	302
M275240		<20	0.01	10	<10	109	<10	226
M275241		<20	0.01	10	<10	148	<10	189
M275242		<20	0.01	10	<10	121	<10	285
M275243		<20	0.01	10	<10	157	<10	313
M275244		<20	0.01	10	<10	88	<10	191
M275245		<20	0.01	10	<10	83	<10	178
M275246		<20	0.01	10	<10	80	<10	254
M275247		<20	0.01	10	<10	113	<10	229
M275248		<20	0.02	10	<10	114	<10	272
M275249		<20	0.02	10	<10	117	<10	273
M275250		<20	0.01	10	<10	120	<10	302
202501		<20	<0.01	10	<10	59	<10	107
202502		<20	0.02	<10	<10	115	<10	187
202503		<20	0.01	10	<10	120	<10	432
202504		<20	0.02	20	<10	141	<10	3980
202505		<20	0.01	10	<10	109	<10	301
202506		<20	0.01	10	<10	106	<10	243
202507		<20	<0.01	10	<10	85	<10	246
202508		<20	0.01	10	<10	91	<10	130
202509		<20	0.02	10	<10	108	<10	331
202510		<20	0.02	10	<10	125	<10	372
202511		<20	0.02	10	<10	125	<10	370
202512		<20	0.01	10	<10	94	<10	213
202513		<20	0.01	10	10	114	<10	122
202514		<20	0.01	10	10	149	<10	571
202515		<20	<0.01	10	10	90	<10	229
202516		<20	0.01	10	<10	89	<10	195
202517		<20	0.01	10	<10	450	<10	233
202518		<20	<0.01	<10	<10	<1	<10	5
202519		<20	0.03	<10	<10	66	<10	47
202520		<20	0.02	<10	<10	74	<10	50
202521		<20	0.02	<10	<10	57	<10	78
202522		<20	0.02	<10	<10	76	<10	92
202523		<20	0.01	<10	<10	84	<10	117
202524		<20	0.01	10	<10	134	<10	461
202525		<20	0.01	<10	<10	84	<10	281
202526		<20	0.01	10	<10	98	<10	344
202527		<20	0.01	<10	<10	97	<10	223
202528		<20	0.01	<10	<10	91	<10	194

Comments: NSS is non-sufficient sample.



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Page: 4 - A

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CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
202529		0.54	0.207	2.5	0.58	274	<10	550	1.2	<2	0.62	1.6	55	2	293	11.90
202530		0.46	0.202	2.1	0.57	268	<10	490	1.1	<2	0.62	1.0	51	2	278	11.45
202531		0.28	0.212	1.8	0.70	272	<10	670	1.4	<2	0.40	1.1	70	1	305	11.60
202532		0.36	0.245	2.7	0.78	325	<10	540	1.4	<2	0.41	1.2	55	7	276	10.80
202533		0.38	0.172	1.5	0.95	197	<10	550	1.5	<2	0.91	0.5	46	6	214	8.83
202534		0.34	0.189	2.2	0.69	219	<10	580	1.4	3	0.27	1.8	52	3	239	10.55
202535		0.34	0.146	1.6	0.83	224	<10	760	1.4	7	0.32	2.0	51	3	296	9.84
202536		0.26	0.096	0.9	1.44	140	<10	1040	1.8	6	0.24	0.9	47	1	362	9.02
202537		0.32	0.441	3.9	0.68	419	<10	580	1.5	3	0.34	2.6	62	4	334	14.3
202538		0.28	0.248	3.1	0.51	280	<10	560	1.1	<2	0.49	1.6	51	4	243	11.90
202539		0.48	0.179	1.5	0.65	290	<10	510	0.8	2	0.02	1.0	37	3	238	11.15
202540		0.26	0.132	3.0	0.96	291	<10	390	2.5	<2	3.38	1.2	33	11	192	11.30
202541		0.34	0.193	2.2	0.80	163	<10	250	1.7	<2	0.26	<0.5	57	3	213	10.75
202542		0.32	0.116	1.7	0.88	98	<10	330	2.0	<2	0.86	0.5	35	8	117	8.27
202543		0.34	0.123	1.7	0.88	101	<10	310	2.0	<2	0.85	0.5	33	9	117	8.23
202545		0.28	0.080	1.2	0.69	106	<10	420	1.9	2	0.47	0.6	49	4	197	10.35
202546		0.24	0.268	2.3	0.77	317	<10	240	1.9	2	0.11	1.0	63	3	271	12.55
202547		0.34	0.387	2.8	0.91	258	<10	390	1.6	2	0.40	1.3	75	11	230	10.85
202548		0.30	0.102	1.4	1.19	126	<10	210	1.8	2	0.23	0.5	34	8	146	8.27
202549		0.28	0.107	1.5	1.14	86	<10	190	1.6	<2	0.16	<0.5	29	9	119	6.92
202550		0.32	0.086	1.9	1.23	108	<10	250	2.1	<2	0.58	0.8	34	10	122	8.21
202551		0.26	0.194	3.3	1.18	186	<10	590	1.8	<2	0.38	0.7	38	9	170	9.76
202552		0.08	<0.005	<0.2	0.01	2	<10	10	<0.5	<2	0.01	<0.5	<1	<1	1	0.03
202553		0.30	0.238	2.1	1.31	188	<10	1060	1.4	<2	0.26	0.9	37	8	218	10.45
202554		0.28	0.270	2.2	0.48	447	<10	120	0.5	3	0.02	0.9	12	2	192	12.90
202555		0.30	0.197	1.8	0.57	268	<10	100	1.1	<2	0.03	<0.5	18	6	169	12.65
202556		0.28	0.210	1.4	0.93	227	<10	600	1.5	<2	0.03	<0.5	47	2	243	10.85
202557		0.30	0.137	1.4	0.99	205	<10	1040	2.9	<2	0.31	2.6	85	3	272	9.93
202558		0.26	0.145	1.5	1.09	212	<10	1000	1.6	5	0.21	1.2	49	3	283	9.23
202559		0.16	0.105	0.7	1.64	126	<10	220	1.5	2	0.10	<0.5	20	4	164	7.07
202560		0.38	0.134	1.2	1.87	140	<10	960	3.0	<2	0.63	<0.5	55	3	276	9.20
202561		0.28	0.102	1.2	0.94	192	<10	820	1.8	3	0.37	1.0	51	2	216	8.37
202562		0.32	0.073	0.8	1.46	97	<10	660	1.8	3	0.60	0.6	39	6	203	7.82
202563		0.32	0.333	2.7	0.85	335	<10	580	1.4	2	0.14	1.6	49	8	230	9.19
202564		0.32	0.315	2.6	0.77	208	<10	210	1.2	<2	0.05	0.6	38	7	138	6.31
202565		0.28	0.343	3.4	0.94	274	<10	550	0.6	3	0.03	<0.5	14	11	122	9.41
202566		0.28	0.294	2.2	0.80	259	<10	370	1.2	2	0.07	1.1	49	4	215	9.36
202567		0.28	0.066	0.9	0.78	343	<10	390	1.3	<2	0.08	0.6	21	14	102	7.22
202568		0.22	0.019	0.8	0.97	126	<10	130	1.3	<2	0.05	<0.5	12	9	100	5.76
202569		0.16	0.033	0.7	0.95	77	<10	360	1.9	<2	0.91	1.1	16	11	86	5.37

Comments: NSS is non-sufficient sample.



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 4 - B

Total # Pages: 7 (A - C)

Finalized Date: 18-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
202529		<10	2	0.25	120	0.17	3980	80	0.01	23	4270	96	0.61	17	29
202530		<10	<1	0.24	120	0.17	3750	78	0.01	24	4200	91	0.59	14	28
202531		<10	1	0.20	120	0.18	5100	56	0.01	29	4250	66	0.49	13	30
202532		<10	<1	0.17	100	0.35	4450	41	0.01	33	3570	77	0.66	19	26
202533		<10	<1	0.23	30	0.51	3160	16	0.01	27	3290	39	0.40	10	19
202534		<10	1	0.16	110	0.18	6110	65	0.01	27	3500	219	0.50	13	26
202535		<10	<1	0.22	210	0.20	3880	109	0.01	26	3600	477	0.25	12	24
202536		<10	1	0.32	210	0.39	2370	90	0.01	19	3890	340	0.28	4	17
202537		<10	1	0.25	140	0.13	4640	108	0.01	35	4160	199	0.61	28	36
202538		<10	<1	0.19	210	0.13	4120	120	0.01	28	3790	170	0.56	21	27
202539		<10	<1	0.25	140	0.16	2350	203	0.01	11	4380	119	0.51	15	22
202540		<10	<1	0.11	40	0.33	4040	32	0.02	27	2590	73	0.47	22	24
202541		<10	<1	0.15	30	0.14	4140	23	0.01	26	4230	44	0.38	13	30
202542		<10	<1	0.13	40	0.14	1770	7	0.01	28	3420	38	0.31	6	31
202543		<10	<1	0.12	40	0.14	1910	7	0.01	28	3430	39	0.31	7	32
202545		<10	1	0.12	20	0.12	3160	9	0.01	28	3740	32	0.43	8	27
202546		<10	1	0.12	30	0.19	5120	15	0.01	24	4270	92	0.98	12	31
202547		<10	<1	0.16	60	0.33	3650	27	<0.01	32	3990	61	0.27	13	46
202548		<10	<1	0.13	50	0.27	1500	23	0.02	24	2950	45	0.20	6	20
202549		<10	<1	0.14	40	0.24	1340	17	0.07	21	2230	36	0.13	6	20
202550		<10	2	0.12	40	0.27	2250	14	0.03	27	3170	43	0.21	8	27
202551		<10	<1	0.16	80	0.40	2780	95	0.03	26	3560	100	0.29	11	27
202552		<10	<1	<0.01	<10	<0.01	6	<1	<0.01	<1	30	<2	<0.01	<2	<1
202553		<10	<1	0.25	190	0.73	2460	316	0.02	22	3860	167	0.40	10	22
202554		<10	<1	0.84	220	0.09	560	729	0.01	5	5950	333	1.53	11	16
202555		<10	1	0.93	50	0.11	800	220	0.02	13	5650	85	1.85	8	18
202556		<10	1	0.34	80	0.21	2840	130	0.01	14	4490	99	0.52	10	18
202557		<10	1	0.27	130	0.20	6630	115	0.01	39	3820	182	0.29	12	21
202558		<10	2	0.25	150	0.18	3150	79	0.01	21	3470	232	0.23	12	13
202559		10	<1	0.20	100	0.20	1210	59	0.01	11	2500	141	0.16	7	4
202560		<10	2	0.23	70	0.73	4650	26	0.01	29	4070	55	0.12	6	20
202561		<10	1	0.35	50	0.21	3840	53	0.02	24	3950	83	0.44	7	15
202562		<10	1	0.24	50	0.61	4200	31	0.02	18	3760	57	0.18	5	15
202563		<10	1	0.23	70	0.14	2820	63	0.01	26	3970	83	0.29	13	18
202564		<10	<1	0.17	70	0.14	1500	53	0.01	16	2420	59	0.13	7	12
202565		10	<1	0.22	60	0.19	670	90	0.01	10	3750	127	0.30	10	11
202566		<10	<1	0.13	150	0.09	3100	177	0.01	15	4110	254	0.17	12	17
202567		<10	2	0.10	30	0.06	1830	23	0.01	15	2660	45	0.07	11	7
202568		<10	<1	0.12	20	0.07	725	24	0.01	14	2120	38	0.10	5	2
202569		<10	<1	0.20	30	0.13	1530	10	0.01	23	2650	40	0.09	4	9

Comments: NSS is non-sufficient sample.



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 4 - C

Total # Pages: 7 (A - C)

Finalized Date: 18-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
202529		<20	0.01	<10	<10	94	<10	227
202530		<20	0.01	<10	<10	90	<10	212
202531		<20	0.01	<10	<10	97	<10	175
202532		<20	0.01	<10	<10	98	<10	212
202533		<20	0.01	<10	<10	90	<10	128
202534		<20	0.01	<10	<10	93	<10	236
202535		<20	0.01	<10	<10	125	<10	250
202536		<20	<0.01	<10	<10	112	<10	184
202537		<20	0.01	<10	<10	139	<10	443
202538		<20	0.01	<10	<10	139	<10	241
202539		<20	0.01	<10	<10	97	<10	112
202540		<20	0.06	<10	<10	91	<10	484
202541		<20	0.02	<10	<10	64	<10	79
202542		<20	0.05	<10	<10	74	<10	81
202543		<20	0.05	<10	<10	72	<10	87
202545		<20	0.03	<10	<10	64	<10	70
202546		<20	0.02	10	<10	84	<10	118
202547		<20	0.01	<10	<10	122	<10	249
202548		<20	0.10	<10	<10	70	<10	125
202549		<20	0.10	<10	<10	60	<10	130
202550		<20	0.07	<10	<10	68	<10	128
202551		<20	0.08	<10	<10	86	<10	184
202552		<20	<0.01	<10	<10	<1	<10	3
202553		<20	0.04	<10	<10	107	<10	254
202554		<20	0.02	<10	<10	90	<10	133
202555		<20	0.01	<10	<10	95	<10	110
202556		<20	0.01	<10	<10	80	<10	105
202557		<20	0.01	<10	<10	105	<10	226
202558		<20	0.01	<10	<10	110	<10	198
202559		<20	0.01	<10	<10	114	<10	98
202560		<20	0.01	<10	<10	129	<10	92
202561		<20	0.02	<10	<10	92	<10	135
202562		<20	0.05	<10	<10	129	<10	110
202563		<20	0.02	10	<10	77	<10	208
202564		<20	0.02	<10	<10	56	<10	121
202565		<20	0.04	10	<10	89	<10	112
202566		<20	0.02	<10	<10	70	<10	242
202567		<20	0.01	<10	<10	65	<10	239
202568		<20	0.01	<10	<10	59	<10	179
202569		<20	<0.01	<10	<10	58	<10	173

Comments: NSS is non-sufficient sample.



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: EQUITY ENGINEERING LTD.

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Page: 5 - A

Total # Pages: 7 (A - C)

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Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
202570		0.22	0.166	1.8	1.32	150	<10	620	1.7	<2	0.53	1.9	30	9	218	8.33
202571		0.16	0.083	1.0	1.27	91	<10	170	1.0	<2	0.07	0.5	19	10	76	6.14
202572		0.18	0.046	1.1	1.16	77	<10	170	0.9	3	0.06	<0.5	17	8	53	4.93
202573		0.18	0.035	0.6	2.50	53	<10	110	1.4	2	0.07	0.6	21	16	61	7.38
202574		0.32	0.031	0.6	0.89	40	<10	390	1.9	2	0.19	1.2	52	3	159	8.28
202575		0.26	0.109	2.2	0.45	98	<10	290	<0.5	<2	0.02	<0.5	6	2	73	7.60
202576		0.30	0.110	2.1	0.44	90	<10	240	<0.5	<2	0.05	0.5	8	2	74	7.87
202577		0.32	0.155	2.5	0.49	92	<10	180	<0.5	<2	0.04	<0.5	6	3	86	9.02
202578		0.28	0.128	1.4	0.57	100	<10	470	<0.5	<2	0.04	<0.5	12	5	132	8.48
202579		0.30	0.090	1.1	0.57	69	<10	590	<0.5	<2	0.15	<0.5	5	4	129	7.18
202580		0.26	0.076	1.0	0.56	63	<10	530	<0.5	<2	0.13	<0.5	5	4	126	6.72
202581		0.28	0.045	0.8	0.37	37	<10	100	2.5	<2	0.63	1.8	20	2	191	6.41
202582		0.34	0.048	0.8	0.61	51	<10	580	<0.5	<2	0.06	<0.5	5	5	108	7.55
202583		0.24	0.035	2.5	0.63	26	<10	190	1.1	<2	0.27	0.5	8	3	106	4.20
202584		0.24	0.014	0.2	1.21	19	<10	390	2.5	<2	0.71	0.6	28	5	137	6.61
202585		0.38	0.030	0.3	1.29	16	<10	180	0.8	<2	2.66	<0.5	23	8	102	6.22
202586		0.42	0.022	0.5	1.20	25	<10	160	1.1	<2	2.52	0.7	27	8	152	7.18
202587		0.28	0.026	0.4	1.12	24	<10	120	1.6	<2	0.73	0.7	29	7	253	7.25
202588		0.58	0.005	0.2	1.03	12	<10	290	1.8	<2	1.33	<0.5	20	5	92	4.59
202589		0.32	<0.005	0.2	0.93	11	<10	290	1.9	<2	0.94	<0.5	20	5	89	4.54
202590		0.38	0.005	0.2	0.86	18	<10	350	2.0	<2	0.72	0.5	20	5	107	4.85
202591		0.24	0.020	0.2	0.99	18	<10	340	2.7	2	0.79	<0.5	30	7	176	5.98
202592		0.22	0.006	0.2	0.96	17	<10	370	2.1	<2	0.75	0.5	22	7	116	5.18
202593		0.26	0.006	<0.2	0.97	14	<10	270	2.1	4	0.58	<0.5	23	7	115	5.44
202594		0.18	0.016	<0.2	1.64	19	<10	230	1.4	4	0.32	0.6	21	9	78	5.35
202595		0.24	0.016	0.6	1.90	16	<10	190	1.7	4	0.26	<0.5	24	10	100	5.52
202596		0.20	0.025	0.3	1.43	53	<10	840	2.3	3	0.53	<0.5	44	20	142	8.58
202597		0.54	0.041	0.3	1.36	36	<10	900	2.7	4	0.27	0.8	33	6	516	7.77
202598		0.24	0.023	0.4	2.14	25	<10	440	2.9	3	0.33	0.7	38	16	206	7.17
202599		0.10	<0.005	<0.2	0.01	3	<10	10	<0.5	<2	0.01	<0.5	<1	<1	1	0.03
202600		0.18	0.018	0.2	2.20	7	<10	100	0.8	5	0.10	<0.5	7	11	52	3.05
202601		0.12	0.007	0.2	0.99	9	<10	210	0.7	4	0.12	0.5	12	7	44	2.63
202602		0.12	0.020	0.5	1.09	7	<10	90	0.5	4	0.05	<0.5	3	6	33	1.64
202603		0.14	0.009	0.2	1.42	12	<10	230	1.2	5	0.29	<0.5	13	7	75	4.13
202604		0.36	0.038	0.4	1.52	17	<10	250	1.7	4	0.08	0.5	15	8	63	5.38
202605		0.38	<0.005	0.2	1.51	13	<10	190	1.8	2	0.16	<0.5	13	7	65	4.54
202606		0.26	0.027	0.5	0.98	31	<10	390	2.3	5	0.28	0.6	25	5	196	5.68
202607		0.28	0.014	0.2	1.41	14	<10	570	2.0	3	0.35	0.5	18	7	118	4.60
202608		0.22	0.009	<0.2	0.96	25	<10	530	1.8	5	0.68	<0.5	16	6	64	4.83
202609		0.44	0.032	1.0	0.97	45	<10	910	1.8	5	0.37	1.3	25	9	314	6.18

Comments: NSS is non-sufficient sample.



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212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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Page: 5 - B

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CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
202570		<10	<1	0.16	60	0.32	4090	20	0.01	21	3150	83	0.16	7	13
202571		10	<1	0.13	20	0.11	2680	18	0.02	11	3310	45	0.10	3	1
202572		<10	<1	0.13	20	0.10	2300	17	0.01	8	3300	44	0.09	3	1
202573		10	<1	0.10	30	0.21	2250	11	0.01	8	2200	39	0.09	4	5
202574		<10	<1	0.15	10	0.10	1460	10	<0.01	9	3160	107	0.04	<2	7
202575		<10	<1	0.47	20	0.07	199	14	0.03	5	3390	160	1.01	5	6
202576		<10	<1	0.44	20	0.07	297	14	0.03	3	3500	161	1.03	7	7
202577		<10	<1	0.41	20	0.13	240	12	0.03	3	3660	159	1.04	7	6
202578		<10	<1	0.19	10	0.18	512	12	0.01	6	3330	112	0.43	5	8
202579		<10	<1	0.25	20	0.17	226	11	0.02	4	2530	96	0.65	3	4
202580		<10	<1	0.24	10	0.17	212	11	0.02	4	2370	89	0.60	4	4
202581		<10	<1	0.16	30	0.10	2190	14	0.01	23	1380	76	3.09	3	3
202582		<10	<1	0.24	10	0.23	253	19	0.02	4	2220	149	0.59	4	5
202583		<10	1	0.25	20	0.15	418	7	0.01	4	1870	137	0.51	3	4
202584		<10	1	0.22	40	0.40	2910	7	0.02	16	2990	43	0.38	2	11
202585		<10	<1	0.14	10	0.84	1160	2	0.02	17	2590	22	1.97	3	9
202586		<10	1	0.20	20	0.65	1470	3	0.02	18	2570	36	2.78	3	9
202587		<10	1	0.19	20	0.51	2210	4	0.02	20	2650	43	2.23	<2	10
202588		<10	1	0.19	30	0.33	1640	5	0.01	12	2740	26	0.33	<2	8
202589		<10	1	0.20	30	0.29	1570	5	0.01	14	2860	25	0.36	2	7
202590		<10	<1	0.20	30	0.25	1920	7	0.01	15	2800	34	0.35	2	8
202591		<10	2	0.28	30	0.23	2690	10	0.02	18	2680	54	0.66	<2	12
202592		<10	1	0.19	30	0.32	2410	6	0.02	17	2810	35	0.29	<2	10
202593		<10	<1	0.18	30	0.29	2070	6	0.01	15	2250	38	0.24	<2	8
202594		<10	1	0.15	20	0.26	2970	7	0.02	18	2170	37	0.08	<2	2
202595		<10	2	0.14	30	0.59	2080	7	0.02	17	2010	32	0.05	<2	4
202596		<10	2	0.18	40	0.43	5200	15	0.02	39	2850	87	0.07	<2	11
202597		<10	1	0.14	40	0.22	6160	14	0.01	18	2340	102	0.09	<2	7
202598		<10	1	0.18	50	0.35	4620	11	0.01	23	2220	99	0.06	<2	15
202599		<10	2	<0.01	<10	<0.01	11	<1	<0.01	2	10	<2	<0.01	<2	<1
202600		10	1	0.09	20	0.25	294	5	0.01	5	1760	16	0.06	<2	1
202601		<10	1	0.12	10	0.11	3220	7	0.02	9	2280	26	0.12	<2	<1
202602		<10	2	0.09	10	0.06	159	4	0.02	5	2050	31	0.11	<2	<1
202603		<10	1	0.14	10	0.23	1050	6	0.01	10	2780	29	0.12	<2	1
202604		10	1	0.12	20	0.16	1820	6	0.01	11	2360	35	0.11	<2	1
202605		<10	2	0.15	20	0.21	1830	5	0.02	8	2630	31	0.09	<2	1
202606		<10	1	0.16	20	0.09	1490	32	0.01	12	2000	75	0.12	<2	4
202607		<10	2	0.15	20	0.17	1860	6	0.01	14	2000	35	0.06	<2	5
202608		<10	2	0.17	20	0.12	2460	5	0.01	11	1920	48	0.09	<2	4
202609		<10	1	0.14	40	0.18	3710	11	<0.01	20	1670	134	0.07	<2	8

Comments: NSS is non-sufficient sample.



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North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 5 - C

Total # Pages: 7 (A - C)

Finalized Date: 18-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
202570		<20	0.01	<10	<10	96	<10	325
202571		<20	0.01	<10	<10	78	<10	129
202572		<20	0.01	<10	<10	71	<10	103
202573		<20	0.13	<10	<10	94	<10	138
202574		<20	0.01	<10	<10	41	<10	242
202575		<20	<0.01	<10	<10	49	<10	64
202576		<20	<0.01	<10	<10	48	<10	66
202577		<20	0.01	<10	<10	56	<10	73
202578		<20	0.01	<10	<10	56	<10	95
202579		<20	0.01	<10	<10	53	<10	107
202580		<20	0.01	<10	<10	51	<10	106
202581		<20	<0.01	<10	<10	23	<10	678
202582		<20	0.02	<10	<10	74	<10	93
202583		<20	<0.01	<10	<10	32	<10	114
202584		<20	0.02	<10	<10	68	<10	115
202585		<20	0.08	<10	<10	114	<10	90
202586		<20	0.04	<10	<10	99	<10	119
202587		<20	0.03	<10	<10	91	<10	132
202588		<20	0.01	<10	<10	49	<10	73
202589		<20	0.01	<10	<10	49	<10	66
202590		<20	0.01	<10	<10	47	<10	76
202591		<20	0.01	<10	<10	52	<10	121
202592		<20	0.01	<10	<10	54	<10	79
202593		<20	0.01	<10	<10	53	<10	80
202594		<20	0.01	<10	<10	63	<10	115
202595		<20	0.03	<10	<10	96	<10	104
202596		<20	0.02	<10	<10	91	<10	154
202597		<20	0.01	10	<10	57	<10	135
202598		<20	0.01	<10	<10	98	<10	196
202599		<20	<0.01	<10	<10	<1	<10	4
202600		<20	0.01	<10	<10	67	<10	50
202601		<20	0.01	<10	<10	40	<10	73
202602		<20	<0.01	<10	<10	29	<10	34
202603		<20	0.01	<10	<10	61	<10	90
202604		<20	0.01	<10	<10	64	<10	123
202605		<20	0.01	<10	<10	56	<10	117
202606		<20	<0.01	<10	<10	32	<10	189
202607		<20	0.01	<10	<10	53	<10	93
202608		<20	0.01	<10	<10	41	<10	173
202609		<20	<0.01	<10	<10	45	<10	349

Comments: NSS is non-sufficient sample.



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 6 - A

Total # Pages: 7 (A - C)

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Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
202610		0.50	0.012	<0.2	1.30	19	<10	230	1.6	3	0.25	<0.5	17	11	122	3.90
202611		0.46	0.012	0.3	1.28	14	<10	650	1.5	5	0.35	0.5	20	10	98	4.44
202612		0.56	0.016	0.4	1.39	19	<10	400	1.8	4	0.62	0.5	22	12	129	5.47
202613		0.34	0.009	0.5	1.44	11	<10	300	1.4	5	0.28	0.8	13	9	61	4.05
202614		0.32	0.077	0.3	2.02	14	<10	220	1.9	<2	0.19	<0.5	26	8	146	5.20
202615		0.18	0.016	<0.2	1.97	12	<10	110	0.7	5	0.10	<0.5	10	13	44	3.98
202616		0.16	0.037	0.6	1.89	10	<10	160	0.7	3	0.19	<0.5	11	13	43	4.08
202617		0.38	0.005	0.2	2.31	17	<10	90	1.0	4	0.04	<0.5	11	11	41	4.62
202618		0.40	0.009	<0.2	3.09	11	<10	80	1.2	3	0.04	<0.5	11	12	54	4.85
202619		0.36	0.007	0.4	1.96	10	<10	60	0.8	2	0.05	<0.5	9	9	45	4.40
202620		0.34	0.005	0.2	2.00	11	<10	110	1.2	4	0.07	0.9	11	11	45	4.05
202621		0.28	0.009	<0.2	3.18	16	<10	70	1.1	4	0.88	0.8	34	22	138	6.22
202622		0.28	0.007	0.5	4.07	12	<10	80	0.6	5	1.48	1.1	48	39	195	8.39
202623		0.30	0.018	0.2	4.63	6	10	70	0.5	2	1.82	1.3	45	40	180	8.47
202624		0.24	0.018	0.2	4.07	6	10	50	0.6	3	1.94	<0.5	32	44	104	6.75
202625		0.28	0.029	0.3	4.91	10	<10	140	0.9	3	1.42	0.5	36	35	168	7.82
202626		0.26	0.017	1.4	2.69	30	<10	380	0.8	2	0.37	2.1	30	39	140	6.25
202627		0.32	0.014	0.7	2.92	21	<10	170	0.6	4	1.14	1.6	34	32	132	6.67
202628		0.50	0.005	<0.2	2.42	61	<10	150	1.2	2	0.19	1.2	30	24	91	6.57
202629		0.50	0.012	1.0	1.24	61	<10	200	0.8	4	0.58	6.7	30	18	127	6.09
202630		0.48	0.012	0.9	1.24	62	<10	200	0.9	<2	0.58	7.0	30	17	127	6.15
202631		0.36	0.022	0.6	1.13	55	<10	140	0.8	3	0.38	4.1	23	17	96	5.77
202632		0.24	0.014	0.5	1.21	38	<10	160	0.6	3	0.36	2.4	18	17	56	4.36
202633		0.20	0.016	0.7	1.20	51	<10	120	0.7	5	0.20	2.0	20	15	67	4.74
202634		0.18	0.013	0.8	0.97	37	<10	170	0.5	4	0.14	3.7	21	16	58	4.38
202635		0.50	0.010	1.0	1.04	48	<10	510	1.3	4	0.29	1.3	35	9	94	9.09
202636		0.22	0.030	1.1	1.38	34	<10	180	0.7	3	0.73	15.3	17	21	99	4.33
202637		0.14	0.011	0.8	1.22	43	<10	190	0.6	4	1.11	8.3	15	26	108	3.99
202638		0.16	0.009	0.5	1.63	32	<10	220	0.6	3	0.72	8.3	20	28	93	4.38
202639		0.22	0.018	1.5	2.08	39	<10	170	0.8	4	1.09	4.4	33	36	173	6.55
202640		0.36	0.007	0.2	3.61	16	<10	100	0.8	4	0.89	1.5	33	36	120	6.68
202641		0.32	0.012	1.5	1.76	36	<10	220	0.6	3	0.73	9.4	21	30	137	4.59
202642		0.18	0.014	0.5	3.78	11	40	60	0.6	3	1.68	0.6	32	45	103	6.63
202643		0.52	0.007	0.5	3.89	11	20	70	0.6	2	1.72	<0.5	31	43	109	6.76
202644		0.30	0.008	0.5	3.03	14	20	100	1.2	<2	2.10	0.6	20	37	76	5.43
202645		0.34	0.016	0.2	2.84	7	20	90	1.0	<2	2.09	0.5	20	37	76	5.20
202646		0.32	0.009	0.4	2.18	8	<10	80	<0.5	2	4.07	0.6	14	36	63	3.97
202647		0.44	0.008	0.4	2.00	9	<10	80	<0.5	<2	3.61	0.5	16	32	55	3.99
202648		0.34	<0.005	<0.2	2.10	10	10	90	<0.5	3	3.02	0.7	17	32	55	3.96
202649		0.50	0.007	1.1	1.82	39	<10	110	0.5	2	1.69	1.6	20	32	83	4.97

Comments: NSS is non-sufficient sample.



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North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 6 - B

Total # Pages: 7 (A - C)

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Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
202610		<10	1	0.16	20	0.17	2120	6	0.02	14	2720	54	0.05	<2	3
202611		<10	2	0.15	30	0.23	3210	6	0.01	17	2170	47	0.04	<2	5
202612		<10	<1	0.18	30	0.43	1800	5	0.01	19	2080	59	0.08	<2	10
202613		10	1	0.14	20	0.32	1270	5	0.02	11	2080	24	0.08	<2	1
202614		<10	<1	0.15	30	0.46	2130	5	0.01	16	1470	37	0.03	<2	10
202615		10	1	0.11	10	0.27	751	6	0.02	10	1910	12	0.11	<2	1
202616		10	1	0.11	10	0.28	1000	6	0.02	9	2000	15	0.12	<2	1
202617		10	1	0.08	20	0.20	870	6	0.01	7	2380	19	0.13	<2	1
202618		10	1	0.08	30	0.23	793	6	0.01	13	1540	20	0.07	<2	1
202619		10	1	0.08	10	0.19	797	4	0.01	9	2010	17	0.08	<2	<1
202620		10	2	0.09	20	0.20	931	3	0.02	8	2110	13	0.10	<2	1
202621		10	1	0.08	10	1.45	1480	17	0.08	57	1140	13	0.03	<2	10
202622		20	1	0.05	<10	2.53	2000	8	0.03	46	1290	12	0.03	2	14
202623		20	1	0.05	<10	2.85	2350	6	0.04	45	1060	14	0.01	4	15
202624		10	<1	0.05	<10	2.05	1970	3	0.04	47	980	17	0.03	<2	10
202625		20	<1	0.08	10	2.10	1520	5	0.04	49	1180	16	0.05	<2	11
202626		10	3	0.07	20	1.27	1440	11	0.01	58	1270	12	0.03	3	12
202627		10	1	0.07	10	1.27	1670	14	0.02	58	1180	18	0.03	<2	9
202628		10	2	0.06	20	0.67	1390	12	0.01	83	860	22	0.02	4	7
202629		<10	3	0.08	20	0.48	1370	38	0.01	120	1540	19	0.02	10	9
202630		<10	1	0.08	20	0.48	1350	38	0.01	114	1520	22	0.01	10	9
202631		<10	1	0.07	20	0.48	1060	29	0.01	81	1460	21	0.02	6	7
202632		<10	2	0.07	10	0.41	873	25	0.01	42	1220	20	0.08	3	2
202633		<10	1	0.08	10	0.37	882	23	0.01	56	1340	22	0.04	4	2
202634		<10	1	0.08	10	0.27	992	23	0.01	47	1690	22	0.08	3	1
202635		<10	2	0.09	20	0.37	1610	24	<0.01	59	1400	37	0.03	6	10
202636		<10	1	0.08	10	0.56	870	31	0.01	88	1700	13	0.07	5	4
202637		<10	2	0.11	10	0.47	621	49	0.01	148	1940	13	0.06	12	6
202638		<10	2	0.12	10	0.59	1030	44	0.01	91	1970	17	0.08	6	2
202639		10	<1	0.11	10	0.98	1460	37	0.02	114	2000	21	0.02	10	10
202640		10	<1	0.07	10	1.73	1750	15	0.03	64	1340	13	0.02	3	10
202641		<10	2	0.09	10	0.71	874	58	0.01	149	1740	11	0.01	9	7
202642		20	1	0.05	<10	2.18	1730	4	0.04	48	940	7	0.02	<2	10
202643		10	2	0.05	<10	2.19	1760	3	0.04	47	970	12	0.02	<2	10
202644		10	1	0.07	10	1.71	1270	4	0.08	33	1100	8	0.03	<2	9
202645		10	1	0.06	10	1.69	1230	4	0.06	33	1140	7	0.03	<2	9
202646		10	1	0.05	<10	1.51	864	1	0.04	28	1190	6	0.21	<2	9
202647		10	1	0.04	<10	1.43	793	1	0.04	26	1000	7	0.53	<2	8
202648		10	2	0.05	<10	1.47	866	3	0.05	32	1080	8	0.27	<2	8
202649		10	1	0.06	<10	1.32	878	10	0.03	45	1540	19	0.47	4	8

Comments: NSS is non-sufficient sample.



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212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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Page: 6 - C

Total # Pages: 7 (A - C)

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Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
202610		<20	0.01	<10	<10	45	<10	103
202611		<20	0.01	<10	<10	49	<10	82
202612		<20	0.02	<10	<10	75	<10	136
202613		<20	0.01	<10	<10	72	<10	101
202614		<20	0.01	<10	<10	80	<10	92
202615		<20	0.01	<10	<10	84	<10	78
202616		<20	0.01	<10	<10	77	<10	83
202617		<20	0.02	<10	<10	71	<10	75
202618		<20	0.03	<10	<10	65	<10	101
202619		<20	0.02	<10	<10	59	<10	71
202620		<20	0.01	<10	<10	62	<10	74
202621		<20	0.19	<10	<10	193	<10	193
202622		<20	0.29	<10	<10	295	<10	210
202623		<20	0.33	<10	<10	307	<10	224
202624		<20	0.28	<10	<10	157	<10	152
202625		<20	0.20	<10	<10	201	<10	212
202626		<20	0.02	<10	<10	138	<10	236
202627		<20	0.11	<10	<10	138	<10	232
202628		<20	0.06	<10	<10	111	<10	228
202629		<20	0.02	<10	<10	125	<10	487
202630		<20	0.02	<10	<10	126	<10	491
202631		<20	0.03	<10	<10	99	<10	318
202632		<20	0.01	<10	<10	87	<10	181
202633		<20	0.02	<10	<10	86	<10	239
202634		<20	0.01	<10	<10	91	<10	252
202635		<20	0.01	<10	<10	61	<10	290
202636		<20	0.02	<10	<10	119	<10	475
202637		<20	0.01	<10	<10	159	<10	706
202638		<20	0.02	<10	<10	173	<10	459
202639		<20	0.08	<10	<10	152	<10	475
202640		<20	0.18	<10	<10	167	<10	270
202641		<20	0.05	<10	<10	217	<10	595
202642		<20	0.26	<10	<10	163	<10	154
202643		<20	0.27	<10	<10	164	<10	145
202644		<20	0.24	<10	<10	136	<10	137
202645		<20	0.23	<10	<10	135	<10	131
202646		<20	0.22	<10	<10	124	<10	90
202647		<20	0.21	<10	<10	117	<10	85
202648		<20	0.22	<10	<10	125	<10	87
202649		<20	0.15	<10	<10	123	<10	199

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Page: 7 - A

Total # Pages: 7 (A - C)

Finalized Date: 18-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
202650		0.32	<0.005	<0.2	2.66	16	10	130	0.5	3	2.69	0.8	22	45	79	5.08
202651		0.30	<0.005	<0.2	2.44	9	<10	130	0.6	2	1.76	1.0	22	37	80	4.95
202652		0.28	<0.005	0.3	2.37	11	10	100	<0.5	<2	1.21	<0.5	18	31	64	4.55
202653		0.28	<0.005	<0.2	3.03	9	<10	130	0.5	4	2.59	<0.5	22	36	80	5.52
202654		0.30	<0.005	0.4	2.35	10	10	90	<0.5	<2	1.27	0.6	19	34	63	4.60
202655		0.06	<0.005	<0.2	0.01	3	<10	10	<0.5	<2	0.01	<0.5	1	<1	1	0.03
202656		0.34	<0.005	0.2	2.19	11	<10	90	<0.5	5	1.10	0.9	20	30	70	4.49
202657		0.36	<0.005	0.5	2.27	13	10	120	0.5	4	1.22	0.8	18	32	69	4.50
202658		0.30	<0.005	0.3	2.33	15	<10	100	<0.5	<2	1.19	0.8	19	39	71	4.60
202659		0.36	<0.005	0.6	2.28	17	10	120	0.5	<2	1.10	1.0	19	35	79	4.65
202660		0.34	<0.005	<0.2	2.02	13	70	80	<0.5	2	1.01	0.8	17	35	71	4.18
202661		0.54	0.006	0.8	2.23	13	10	80	<0.5	3	1.59	1.1	20	38	80	4.52
E841751		0.36	0.060	0.5	0.93	114	<10	350	1.3	<2	0.51	0.5	39	3	175	6.62
E841752		0.28	0.035	0.4	1.38	80	<10	350	1.6	2	0.82	<0.5	30	23	129	5.89
E841753		0.34	0.028	0.9	0.68	44	<10	380	1.3	<2	0.56	1.6	22	3	150	5.10
E841754		0.44	0.033	1.2	0.26	75	<10	260	<0.5	2	0.23	<0.5	5	1	67	5.98
E841755		0.42	0.054	0.6	1.06	34	<10	120	1.0	<2	1.33	0.6	28	7	166	6.31
E841756		0.24	0.012	<0.2	1.11	14	<10	220	1.4	<2	0.60	<0.5	21	12	93	4.62
E841757		0.58	0.006	0.2	1.86	11	<10	60	<0.5	<2	3.38	0.7	14	29	59	3.51

Comments: NSS is non-sufficient sample.



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Page: 7 - B

Total # Pages: 7 (A - C)

Finalized Date: 18-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
202650		10	<1	0.08	<10	1.83	1070	2	0.05	43	1270	11	0.16	2	10
202651		10	1	0.08	10	1.58	1080	2	0.05	35	2590	13	0.12	<2	10
202652		10	1	0.06	10	1.52	1080	1	0.06	27	1250	6	0.07	<2	10
202653		10	1	0.08	<10	1.98	1240	1	0.07	26	1240	11	0.07	2	11
202654		10	1	0.06	10	1.55	1070	1	0.05	23	1180	12	0.09	<2	9
202655		<10	1	<0.01	<10	<0.01	<5	<1	<0.01	<1	10	<2	<0.01	<2	<1
202656		10	1	0.05	10	1.40	1080	3	0.05	32	1200	6	0.07	<2	9
202657		10	1	0.05	10	1.46	1020	2	0.05	31	1250	7	0.07	2	10
202658		10	<1	0.06	10	1.59	1030	1	0.04	35	1210	11	0.10	<2	9
202659		10	1	0.07	10	1.52	904	2	0.04	41	1390	13	0.16	4	9
202660		10	1	0.05	10	1.37	926	2	0.05	34	1250	8	0.10	<2	8
202661		10	2	0.07	<10	1.46	941	2	0.07	40	1620	7	0.12	<2	9
E841751		<10	2	0.26	40	0.38	2410	32	0.01	14	3030	85	0.24	3	10
E841752		<10	1	0.16	20	0.51	1385	8	0.02	30	3370	36	0.17	3	12
E841753		<10	1	0.17	10	0.15	1105	6	0.02	15	3010	155	0.37	<2	7
E841754		<10	1	0.24	10	0.04	196	10	0.02	5	3420	159	0.84	4	4
E841755		<10	1	0.11	10	0.72	1195	7	0.03	21	2520	31	2.00	3	7
E841756		<10	1	0.11	20	0.31	1555	4	0.02	20	2220	35	0.11	<2	6
E841757		10	<1	0.04	<10	1.32	693	3	0.05	30	1140	8	0.55	<2	7

Comments: NSS is non-sufficient sample.



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Page: 7 - C

Total # Pages: 7 (A - C)

Finalized Date: 18-OCT-2007

Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07097566

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
202650		<20	0.23	<10	<10	156	<10	132
202651		<20	0.23	<10	<10	151	<10	153
202652		<20	0.23	<10	<10	142	<10	93
202653		<20	0.23	<10	<10	167	<10	128
202654		<20	0.21	<10	<10	140	<10	103
202655		<20	<0.01	<10	<10	<1	<10	3
202656		<20	0.22	<10	<10	133	<10	120
202657		<20	0.23	<10	<10	136	<10	115
202658		<20	0.21	<10	<10	135	<10	125
202659		<20	0.17	<10	<10	121	<10	132
202660		<20	0.17	<10	<10	120	<10	116
202661		<20	0.22	<10	<10	136	<10	149
E841751		<20	0.03	<10	<10	100	<10	115
E841752		<20	0.02	<10	<10	87	<10	143
E841753		<20	<0.01	<10	<10	41	<10	338
E841754		<20	<0.01	<10	<10	36	<10	111
E841755		<20	0.06	<10	<10	101	<10	168
E841756		<20	0.01	<10	<10	60	<10	107
E841757		<20	0.13	<10	<10	103	<10	94

Comments: NSS is non-sufficient sample.



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Page: 1
Finalized Date: 20-NOV-2007
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CERTIFICATE TR07102234

Project: BCG07-01

P.O. No.:

This report is for 69 Rock samples submitted to our lab in Terrace, BC, Canada on 12-SEP-2007.

The following have access to data associated with this certificate:

ANDREW BROWN
RORY KUTLUOGLU

BRIAN FOWLER

QUITY ENGINEERING GENERAL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Zn-OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au-AA23	Au 30g FA-AA finish	AAS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A

Total # Pages: 3 (A - C)

Finalized Date: 20-NOV-2007

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Project: BCG07-01

CERTIFICATE OF ANALYSIS TR07102234

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
200951		0.81	<0.005	<0.2	2.94	5	10	730	0.8	<2	9.00	<0.5	28	3	69	5.13
200952		1.20	0.015	<0.2	0.61	19	<10	30	0.9	<2	2.40	<0.5	18	3	183	3.14
200953		1.13	0.024	0.3	0.34	62	20	10	<0.5	<2	6.66	<0.5	9	10	16	4.95
200954		0.90	0.014	0.5	0.32	32	20	10	0.5	<2	2.47	<0.5	16	17	93	9.03
200955		0.71	<0.005	<0.2	0.63	2	<10	40	0.6	<2	0.69	<0.5	9	2	49	4.06
200956		1.47	0.010	1.0	0.89	9	<10	330	1.6	<2	19.3	<0.5	25	28	69	3.15
200957		0.72	<0.005	1.1	0.42	7	<10	90	0.6	<2	19.0	<0.5	22	17	26	6.01
200958		0.45	<0.005	<0.2	0.12	6	<10	780	<0.5	<2	>25.0	<0.5	2	1	8	0.80
200959		0.68	<0.005	0.2	0.90	10	20	90	<0.5	<2	11.40	<0.5	11	14	53	3.44
200960		0.96	<0.005	0.2	0.70	49	<10	40	0.7	<2	20.7	<0.5	18	1	51	7.23
200961		0.56	0.007	<0.2	2.31	6	10	660	1.0	<2	7.70	<0.5	19	6	216	4.84
200962		0.45	<0.005	0.2	0.18	11	<10	80	<0.5	<2	>25.0	<0.5	2	1	3	0.60
200963		0.75	0.025	0.2	0.56	16	<10	20	0.5	<2	6.30	<0.5	16	4	691	4.31
200964		0.82	0.007	0.2	0.61	16	<10	30	0.8	<2	8.79	<0.5	18	3	112	4.26
200965		0.38	0.059	0.5	0.27	94	<10	30	<0.5	<2	10.45	<0.5	34	1	137	5.29
200966		0.67	0.011	2.4	0.48	79	<10	20	0.5	<2	2.66	<0.5	30	2	77	7.41
200967		0.61	0.193	0.6	0.94	24	10	100	0.8	<2	0.52	<0.5	19	<1	85	3.83
200968		0.90	0.035	0.8	0.64	30	<10	70	0.7	<2	0.86	<0.5	18	1	123	5.39
200969		1.01	0.036	1.5	0.82	121	<10	60	0.6	8	4.65	1.8	21	1	226	4.41
200970		0.50	0.027	1.5	0.69	363	10	50	0.7	7	14.9	1.2	17	2	163	4.82
200971		0.48	0.098	0.7	0.89	135	10	270	0.6	<2	0.14	<0.5	11	1	66	5.16
200972		0.59	0.050	0.8	1.03	86	10	80	0.6	<2	0.36	0.7	17	2	178	2.85
200973		0.57	0.030	0.9	0.79	28	<10	20	1.1	<2	8.79	<0.5	11	1	111	3.88
200974		0.50	0.021	0.4	0.54	108	<10	30	0.7	<2	2.52	<0.5	6	4	219	2.73
200975		0.34	0.530	0.5	0.56	1500	<10	50	0.7	<2	14.6	0.6	14	12	3110	3.06
200976		0.41	0.019	<0.2	0.29	72	<10	40	<0.5	<2	3.03	<0.5	4	41	146	1.55
200977		0.44	0.125	<0.2	0.45	436	<10	30	0.7	<2	11.40	<0.5	13	7	700	3.22
200978		0.85	0.044	0.2	0.43	96	<10	30	0.5	<2	8.19	<0.5	7	8	320	2.44
200979		0.70	0.010	<0.2	0.56	17	10	50	<0.5	<2	3.83	<0.5	12	49	95	1.76
200980		0.64	<0.005	<0.2	0.39	21	<10	40	0.8	<2	7.67	6.4	11	3	55	6.29
200981		1.40	0.022	<0.2	0.53	22	<10	360	0.7	<2	0.09	<0.5	3	1	19	8.51
200982		0.83	0.030	<0.2	0.51	25	<10	70	0.7	<2	2.07	<0.5	7	4	18	6.07
200983		1.33	<0.005	<0.2	0.76	4	<10	120	1.1	<2	4.22	<0.5	11	6	12	2.82
200984		0.66	0.015	0.3	0.44	16	<10	30	0.8	<2	6.15	<0.5	9	5	216	4.42
200985		0.84	<0.005	<0.2	0.82	18	<10	10	0.8	<2	0.70	<0.5	28	1	91	6.04
200986		0.94	<0.005	<0.2	0.88	80	10	150	1.6	<2	14.8	<0.5	26	131	77	4.97
200987		1.15	<0.005	<0.2	0.87	16	10	180	1.0	<2	14.8	<0.5	15	15	68	2.98
200988		0.68	<0.005	<0.2	1.05	26	10	200	1.4	<2	10.60	<0.5	27	59	77	5.20
200989		0.81	0.008	<0.2	0.60	17	10	140	1.7	<2	2.46	<0.5	10	5	31	3.65
200990		1.18	<0.005	18.5	0.27	133	<10	10	<0.5	<2	0.95	0.9	20	1	338	16.0



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Page: 2 - B

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CERTIFICATE OF ANALYSIS TR07102234

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
200951		10	<1	0.38	10	1.84	1250	2	0.06	3	2410	8	0.33	4	11
200952		<10	1	0.38	20	0.06	514	120	0.04	7	880	12	3.44	<2	2
200953		<10	<1	0.18	10	0.07	968	6010	0.05	14	1460	16	6.84	<2	6
200954		<10	2	0.15	10	0.05	487	6590	0.02	30	940	20	>10.0	<2	3
200955		<10	<1	0.32	10	0.05	187	35	0.03	7	1390	47	4.34	<2	2
200956		<10	<1	0.33	10	1.37	3160	22	0.03	17	1910	29	0.6	4	22
200957		<10	<1	0.17	<10	4.95	4670	15	0.03	12	750	27	1.1	2	14
200958		<10	<1	0.06	<10	0.22	2590	3	0.03	<1	310	6	<0.01	2	1
200959		<10	<1	0.11	10	1.50	1220	4	0.05	5	1340	5	0.06	4	9
200960		<10	<1	0.04	10	0.40	1695	7	0.05	5	1180	17	7.7	4	7
200961		10	<1	0.32	10	1.62	1505	2	0.09	3	3360	12	0.48	2	8
200962		<10	1	0.09	<10	0.12	958	1	0.01	1	300	8	<0.01	<2	1
200963		<10	<1	0.31	10	0.09	888	157	0.07	7	1350	7	5.28	4	3
200964		<10	<1	0.40	10	0.35	1325	6	0.03	7	1810	21	4.75	<2	6
200965		<10	<1	0.22	30	0.10	1495	6	0.02	17	2240	14	5.41	7	21
200966		<10	1	0.37	10	0.62	660	20	0.02	12	2960	49	7.26	8	19
200967		<10	<1	0.59	60	0.09	113	11	0.01	5	3860	15	2.44	2	8
200968		<10	<1	0.48	30	0.09	262	11	0.02	6	2740	36	4.24	4	9
200969		<10	<1	0.56	140	1.68	1365	16	0.03	3	2290	1560	4.07	4	13
200970		<10	<1	0.42	120	0.20	1715	29	0.03	7	1820	631	5.30	7	9
200971		<10	<1	0.66	100	0.21	296	86	0.01	5	2390	37	1.06	6	7
200972		<10	<1	0.64	130	0.10	22	291	0.02	6	2680	115	3.12	3	6
200973		<10	1	0.44	<10	0.15	2590	6	0.04	1	1160	47	5.19	<2	3
200974		<10	<1	0.33	10	0.18	743	14	0.03	9	780	10	3.48	2	1
200975		<10	1	0.30	60	0.12	3580	9	0.03	27	4860	33	4.04	12	14
200976		<10	<1	0.21	<10	0.16	686	55	0.01	57	370	12	1.58	2	3
200977		<10	<1	0.27	10	0.09	2200	4	0.03	36	480	27	4.08	6	7
200978		<10	<1	0.25	10	0.22	2300	5	0.04	18	820	18	3.01	7	4
200979		<10	<1	0.33	10	0.15	522	172	0.02	88	3460	8	1.98	3	3
200980		<10	<1	0.26	20	0.09	1150	6	0.05	11	1030	25	6.84	<2	8
200981		<10	<1	0.36	<10	0.03	133	10	0.11	<1	410	41	0.63	2	2
200982		<10	<1	0.17	20	0.29	1080	10	0.09	4	920	17	5.26	<2	3
200983		<10	<1	0.27	10	0.29	1050	2	0.07	9	1030	23	2.11	2	6
200984		<10	<1	0.25	10	0.05	1160	26	0.04	13	610	111	5.12	4	3
200985		<10	<1	0.43	<10	0.03	36	3	0.03	19	2610	28	6.45	3	3
200986		<10	<1	0.12	<10	1.03	981	3	0.03	44	2350	7	0.17	2	26
200987		<10	<1	0.28	20	0.27	1030	1	0.05	16	2140	12	0.49	<2	14
200988		<10	<1	0.14	10	0.27	1730	3	0.06	25	1840	12	0.03	2	21
200989		<10	<1	0.37	20	0.69	580	7	0.06	7	1120	45	2.61	3	3
200990		<10	2	0.15	<10	0.05	330	245	0.04	6	690	194	>10.0	4	2



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Page: 2 - C

Total # Pages: 3 (A - C)

Finalized Date: 20-NOV-2007

Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS TR07102234

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01
200951		<20	<0.01	<10	<10	111	<10	83	
200952		<20	<0.01	<10	<10	21	<10	8	
200953		<20	<0.01	<10	<10	40	<10	9	
200954		<20	<0.01	<10	<10	129	<10	13	
200955		40	<0.01	<10	<10	18	<10	57	
200956		<20	0.01	<10	<10	41	<10	24	
200957		<20	<0.01	<10	<10	30	<10	21	
200958		20	<0.01	<10	<10	3	<10	20	
200959		<20	0.01	<10	<10	114	<10	37	
200960		<20	<0.01	<10	<10	96	<10	136	
200961		<20	0.01	<10	<10	157	<10	83	
200962		<20	<0.01	<10	40	8	<10	12	
200963		<20	<0.01	<10	<10	28	<10	8	
200964		<20	<0.01	<10	<10	33	<10	9	
200965		<20	<0.01	<10	<10	56	<10	27	
200966		<20	0.01	<10	<10	91	<10	11	
200967		<20	<0.01	<10	<10	67	<10	8	
200968		20	<0.01	<10	<10	61	<10	27	
200969		30	0.01	<10	<10	242	<10	61	
200970		<20	<0.01	<10	<10	106	<10	243	
200971		<20	0.01	<10	<10	122	<10	34	
200972		40	0.01	<10	<10	104	10	89	
200973		<20	<0.01	10	<10	28	<10	71	
200974		<20	<0.01	<10	<10	15	<10	24	
200975		<20	<0.01	<10	<10	116	40	243	
200976		<20	<0.01	<10	<10	20	<10	120	
200977		<20	<0.01	<10	<10	38	<10	76	
200978		<20	<0.01	<10	<10	28	<10	23	
200979		<20	<0.01	<10	<10	23	<10	96	
200980		<20	<0.01	<10	<10	28	<10	399	
200981		<20	<0.01	<10	<10	35	<10	11	
200982		<20	<0.01	<10	<10	44	<10	14	
200983		<20	0.01	<10	<10	28	<10	23	
200984		<20	<0.01	<10	<10	20	<10	63	
200985		<20	<0.01	<10	<10	22	<10	61	
200986		<20	<0.01	<10	<10	108	<10	50	
200987		<20	<0.01	<10	<10	74	<10	32	
200988		<20	0.01	<10	<10	173	<10	58	
200989		<20	<0.01	<10	<10	32	<10	43	
200990		<20	0.01	30	<10	23	<10	51	



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Page: 3 - A

Total # Pages: 3 (A - C)

Finalized Date: 20-NOV-2007

Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS TR07102234

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
200991		1.27	0.057	<0.2	0.48	50	<10	90	<0.5	<2	2.52	<0.5	16	1	2330	3.74
200992		1.32	0.028	2.2	0.67	44	10	100	0.6	4	5.21	0.7	21	1	2590	3.36
200993		0.95	0.251	0.9	0.50	132	<10	20	<0.5	<2	4.19	<0.5	28	12	254	6.49
200994		0.97	0.600	46.2	0.11	236	<10	50	0.8	<2	>25.0	150.5	2	<1	266	2.22
200995		1.04	<0.005	<0.2	0.27	5	<10	60	<0.5	<2	9.03	0.5	2	16	18	0.99
200996		0.89	0.005	<0.2	3.89	<2	<10	130	<0.5	<2	2.91	<0.5	14	10	89	4.68
200997		1.09	<0.005	<0.2	5.41	<2	10	20	<0.5	<2	8.65	<0.5	15	78	46	3.23
200998		0.98	<0.005	<0.2	3.56	5	<10	360	0.8	<2	6.54	<0.5	43	145	69	5.91
200999		1.12	<0.005	<0.2	0.50	3	<10	40	<0.5	<2	0.73	<0.5	5	24	11	1.63
201000		1.17	0.282	0.5	0.21	216	<10	50	<0.5	<2	0.69	4.1	2	17	9	1.81
202801		0.84	0.251	0.3	0.29	226	<10	100	<0.5	<2	0.69	<0.5	4	15	12	1.71
202802		1.86	0.018	0.6	1.87	4	<10	50	1.2	<2	7.16	<0.5	18	13	1350	8.22
202803		1.12	0.009	<0.2	0.80	55	10	70	<0.5	<2	9.47	<0.5	12	1	24	4.47
202804		0.82	0.005	0.4	0.70	9	<10	140	<0.5	<2	2.90	<0.5	4	16	15	1.91
202805		0.33	<0.005	0.2	1.75	7	<10	210	<0.5	<2	0.73	<0.5	9	18	73	3.46
202806		0.81	<0.005	<0.2	0.42	10	<10	80	<0.5	<2	2.55	<0.5	4	11	13	1.45
202851		0.88	0.009	<0.2	0.34	22	<10	120	0.6	<2	17.3	<0.5	8	6	40	2.49
202852		0.78	0.008	0.2	0.54	8	<10	110	0.5	2	0.28	<0.5	6	5	40	4.92
202853		0.54	<0.005	<0.2	0.76	148	10	30	1.0	<2	5.40	<0.5	29	4	120	6.11
202854		1.15	0.008	<0.2	0.79	144	10	100	1.2	<2	1.59	<0.5	10	4	69	5.08
202855		0.81	0.065	1.0	0.64	153	<10	60	0.7	<2	5.94	<0.5	23	1	113	7.40
202856		1.15	0.152	1.6	0.44	143	<10	30	<0.5	2	0.19	<0.5	25	7	154	7.37
202857		0.96	0.132	<0.2	0.59	167	10	30	0.8	<2	1.20	0.6	14	1	153	5.11
202858		1.93	0.098	<0.2	0.37	155	<10	50	<0.5	<2	11.05	19.5	4	3	35	2.89
202859		0.93	0.288	<0.2	0.60	349	10	30	0.7	13	5.46	0.9	11	1	78	6.24
202860		2.08	0.128	1.9	1.02	308	<10	50	0.9	25	6.58	17.2	18	1	285	7.24
202861		1.14	<0.005	<0.2	2.65	3	10	300	<0.5	<2	2.50	<0.5	13	30	27	4.71
202862		0.62	<0.005	<0.2	4.52	5	10	90	0.5	<2	5.59	<0.5	15	5	46	5.69
202863		0.93	<0.005	<0.2	5.60	<2	20	30	<0.5	<2	8.04	<0.5	12	19	30	4.07



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Page: 3 - B

Total # Pages: 3 (A - C)

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Project: BCG07-01

CERTIFICATE OF ANALYSIS TR07102234

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
200991		<10	<1	0.40	200	0.97	1080	127	0.02	6	2560	655	2.84	6	7
200992		<10	<1	0.47	110	1.98	1730	170	0.02	5	1460	375	2.06	4	14
200993		<10	<1	0.38	10	0.48	930	51	0.02	26	2720	47	6.61	6	19
200994		<10	56	0.09	20	0.45	920	77	0.03	<1	150	1880	4.2	153	1
200995		<10	<1	0.07	10	0.19	1440	2	0.02	8	130	21	0.80	<2	2
200996		10	<1	0.09	<10	1.40	884	<1	0.32	4	1290	10	0.20	4	7
200997		20	1	<0.01	<10	1.01	678	1	0.03	34	870	7	0.67	5	7
200998		10	<1	0.09	<10	3.98	807	1	0.03	142	560	4	0.35	5	25
200999		<10	<1	0.07	<10	0.32	181	<1	0.02	18	100	16	0.94	4	4
201000		<10	<1	0.05	<10	0.05	87	6	0.01	10	400	73	1.60	3	1
202801		<10	<1	0.10	<10	0.16	112	<1	0.01	8	90	9	1.42	3	1
202802		10	<1	0.04	10	0.92	651	58	0.06	14	1800	5	4.69	3	6
202803		<10	<1	0.20	<10	1.79	1350	<1	0.03	2	1050	4	0.67	6	4
202804		<10	<1	0.14	10	0.31	256	7	0.02	12	3350	15	1.45	4	2
202805		10	<1	0.14	10	1.16	388	1	0.05	11	330	8	0.39	2	6
202806		<10	<1	0.11	<10	0.84	327	1	0.02	10	930	5	0.97	2	2
202851		<10	<1	0.21	10	0.09	2410	2	0.03	14	910	13	3.2	2	3
202852		<10	<1	0.32	10	0.04	75	3	0.06	3	1060	18	3.11	<2	2
202853		<10	<1	0.46	10	0.44	1800	1	0.04	15	3730	17	7.17	4	14
202854		<10	<1	0.56	30	0.10	186	17	0.02	8	2070	43	5.23	8	4
202855		<10	<1	0.46	20	0.32	817	11	0.02	11	2300	38	5.85	9	8
202856		<10	<1	0.39	20	0.04	69	120	<0.01	12	2540	65	6.44	6	5
202857		<10	<1	0.46	190	0.37	785	23	0.01	3	2400	39	4.37	8	9
202858		<10	4	0.25	300	5.97	2400	18	0.02	1	330	249	2.79	10	5
202859		<10	<1	0.44	400	2.79	2630	31	0.01	1	960	851	5.35	9	12
202860		10	2	0.77	290	3.28	3550	10	0.01	3	920	2010	3.84	11	12
202861		10	<1	0.13	10	1.89	1380	<1	0.09	9	980	10	0.29	4	8
202862		10	<1	0.07	<10	1.60	1290	1	0.04	2	1230	9	0.50	2	10
202863		20	<1	0.03	<10	1.11	840	<1	0.03	6	1120	8	0.78	5	7



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Page: 3 - C
Total # Pages: 3 (A - C)
Finalized Date: 20-NOV-2007
Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS TR07102234

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.01
200991		60	<0.01	<10	<10	102	<10	40	
200992		<20	<0.01	<10	<10	169	<10	59	
200993		<20	<0.01	<10	<10	63	<10	30	
200994		70	<0.01	<10	<10	865	<10	>10000	1.90
200995		<20	<0.01	<10	<10	14	<10	84	
200996		<20	0.32	<10	<10	139	<10	98	
200997		<20	0.24	<10	<10	87	<10	74	
200998		<20	<0.01	<10	<10	150	<10	62	
200999		<20	<0.01	<10	<10	23	<10	51	
201000		<20	0.01	<10	<10	11	<10	442	
202801		<20	<0.01	<10	<10	8	<10	39	
202802		<20	0.17	<10	<10	115	<10	61	
202803		<20	<0.01	<10	<10	49	<10	28	
202804		<20	<0.01	<10	<10	15	<10	44	
202805		<20	0.03	<10	<10	80	<10	62	
202806		<20	<0.01	<10	<10	13	<10	51	
202851		<20	<0.01	<10	<10	28	<10	22	
202852		<20	<0.01	<10	<10	21	<10	9	
202853		<20	<0.01	<10	<10	71	10	44	
202854		<20	0.01	<10	<10	71	<10	26	
202855		<20	0.01	<10	<10	58	<10	13	
202856		<20	0.01	<10	<10	57	<10	15	
202857		20	<0.01	10	<10	75	<10	82	
202858		80	<0.01	10	<10	90	<10	2630	
202859		30	0.01	<10	<10	323	<10	142	
202860		30	0.01	10	<10	571	10	1700	
202861		<20	0.01	<10	<10	97	<10	109	
202862		<20	0.40	<10	<10	155	<10	104	
202863		<20	0.26	<10	<10	84	<10	88	



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Page: 1
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CERTIFICATE VA07117140

Project: Voigtberg

P.O. No.: BCG07-03

This report is for 1 Drill Core sample submitted to our lab in Vancouver, BC, Canada on 11-OCT-2007.

The following have access to data associated with this certificate:

ANDREW BROWN
FREEMAN SMITH

QUITY ENGINEERING GENERA

RORY KUTLUOGLU

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A
Total # Pages: 2 (A - C)
Finalized Date: 7-NOV-2007
Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07117140

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
202901		1.04	20.7	19.35	23.4	1.05	158	<10	90	0.7	<2	7.01	<0.5	17	2	188



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Page: 2 - B
Total # Pages: 2 (A - C)
Finalized Date: 7-NOV-2007
Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07117140

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
202901		4.38	<10	<1	0.43	20	0.83	1460	4	0.02	6	3020	36	3.45	3	9



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Page: 2 - C
Total # Pages: 2 (A - C)
Finalized Date: 7-NOV-2007
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CERTIFICATE OF ANALYSIS VA07117140

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR		1	20	0.01	10	10	1	10	2
202901		644	<20	0.02	<10	<10	97	<10	168



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To: EQUITY ENGINEERING LTD.
700 - 700 WEST PENDER ST.
VANCOUVER BC V6C 1G8

Page: 1
Finalized Date: 9-NOV-2007
Account: EIABCG

CERTIFICATE TR07129897

Project: Voigtberg

P.O. No.: BCG07-01

This report is for 80 Drill Core samples submitted to our lab in Terrace, BC, Canada on 7-NOV-2007.

The following have access to data associated with this certificate:

ANDREW BROWN
FREEMAN SMITH

QUITY ENGINEERING GENERA

RORY KUTLUOGLU

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A

Total # Pages: 3 (A - C)

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CERTIFICATE OF ANALYSIS TR07129897

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	Au-GRA21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm
		0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
196751		3.45	0.208		1.6	0.89	377	<10	10	1.2	<2	0.88	0.8	19	2	776
196752		4.15	0.198		1.0	1.25	376	10	10	0.9	<2	2.51	1.2	16	69	187
196753		2.61	0.093		0.9	1.09	116	<10	20	1.1	2	1.50	0.5	14	51	517
196754		1.56	0.093		0.3	0.61	116	<10	40	0.5	<2	0.85	<0.5	4	4	504
196755		3.89	0.129		0.3	0.86	44	<10	20	0.9	<2	1.51	<0.5	12	7	120
196756		2.51	0.045		<0.2	0.71	30	<10	50	0.8	<2	0.64	<0.5	5	2	122
196757		3.57	0.132		0.4	0.90	36	10	20	1.2	<2	0.78	<0.5	16	5	84
196758		3.18	0.151		0.5	1.10	51	10	10	1.1	<2	2.32	<0.5	27	1	165
196759		2.27	0.319		0.5	1.21	100	10	20	1.5	<2	1.25	<0.5	31	<1	183
196760		2.24	0.302		0.5	1.28	92	10	20	1.6	2	1.33	<0.5	33	<1	173
196761		2.49	0.183		0.4	0.93	48	10	20	1.3	<2	1.19	<0.5	14	2	96
196762		3.18	0.207		0.4	0.95	47	10	10	1.6	<2	0.75	<0.5	14	2	99
196763		3.66	0.126		0.3	0.76	37	10	30	1.0	<2	1.35	<0.5	12	4	81
196764		4.28	0.168		0.5	0.81	82	10	10	1.1	<2	1.01	<0.5	21	2	163
196765		4.23	0.175		0.7	0.96	110	10	10	1.2	<2	1.54	<0.5	29	3	110
196766		2.70	0.086		0.4	0.80	42	<10	30	1.3	<2	1.37	<0.5	16	2	125
196767		2.92	0.123		0.4	0.95	72	10	20	1.2	<2	1.83	1.2	24	2	133
196768		4.37	0.133		0.4	0.77	69	<10	20	1.3	<2	1.12	<0.5	16	6	76
196769		1.40	0.070		0.3	0.76	66	<10	40	0.9	<2	1.47	<0.5	13	6	123
196770		1.66	0.065		0.3	0.71	60	<10	30	0.9	<2	1.51	<0.5	13	7	105
196771		1.09	0.066		1.6	0.98	160	10	10	1.1	<2	1.21	<0.5	29	1	692
196772		3.07	0.031		0.4	0.68	62	<10	50	0.8	<2	1.29	<0.5	12	5	64
196773		3.45	0.060		1.4	0.68	117	<10	30	0.7	<2	3.24	<0.5	13	4	112
196774		4.73	0.038		0.2	0.56	101	<10	40	0.5	<2	1.42	<0.5	11	5	111
196775		5.21	0.052		1.8	0.98	65	10	20	1.1	<2	2.32	0.8	29	1	532
196776		4.42	0.008		1.0	1.41	80	10	30	1.4	<2	2.47	<0.5	32	<1	200
196777		2.31	0.006		0.7	1.04	111	10	40	1.3	<2	2.55	<0.5	32	<1	188
196778		2.91	0.018		0.5	1.07	94	10	20	1.3	<2	1.79	<0.5	31	2	195
196779		5.09	0.032		0.9	0.80	93	10	40	0.5	<2	3.76	5.4	7	78	91
196780		0.09	<0.005		<0.2	0.01	<2	<10	10	<0.5	<2	0.02	<0.5	<1	<1	9
196781		3.29	0.082		2.0	1.25	169	10	30	0.8	<2	5.16	3.4	12	94	484
196782		4.29	0.210		1.4	1.04	109	10	20	1.4	<2	1.69	1.1	27	9	686
196783		3.99	0.247		1.5	0.81	100	10	20	1.1	<2	1.06	1.7	19	4	595
196784		4.58	0.264		1.7	0.82	111	10	30	1.1	<2	1.18	3.2	21	6	744
196785		4.66	0.379		1.3	0.82	58	10	20	1.1	<2	0.64	1.1	21	5	700
196786		3.96	0.940		2.0	0.77	88	10	20	1.0	<2	0.64	2.2	20	6	731
196787		3.85	0.235		1.1	0.79	54	10	30	0.9	<2	0.58	0.9	17	21	179
196788		4.65	0.189		2.7	0.83	111	10	20	1.2	<2	0.49	2.5	22	3	545
196789		2.13	0.206		3.1	0.77	165	<10	20	0.9	<2	1.08	0.5	15	8	560
196790		2.18	0.231		3.4	0.73	172	<10	20	0.9	<2	0.96	0.6	15	7	433



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Page: 2 - B

Total # Pages: 3 (A - C)

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CERTIFICATE OF ANALYSIS TR07129897

	Method Analyte Units LOR	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm
Sample Description		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
196751		8.11	<10	3	0.43	<10	0.06	255	15	0.02	16	2190	75	9.05	25	2
196752		8.85	<10	4	0.58	170	0.05	470	5	0.01	62	>10000	119	>10.0	18	2
196753		6.94	<10	1	0.53	100	0.05	301	8	0.02	75	6320	66	8.02	11	2
196754		2.07	<10	3	0.36	10	0.02	213	3	0.04	13	920	18	2.29	25	1
196755		3.73	<10	1	0.43	10	0.05	255	3	0.04	15	1220	52	4.25	6	2
196756		2.37	<10	2	0.38	10	0.04	113	3	0.04	5	380	27	2.64	7	1
196757		4.69	<10	<1	0.45	10	0.05	134	4	0.05	16	1600	54	5.32	3	2
196758		7.39	<10	2	0.54	<10	0.09	450	4	0.06	12	3200	39	8.69	4	6
196759		7.18	<10	1	0.63	<10	0.10	203	3	0.05	12	4000	36	8.30	9	4
196760		7.98	<10	1	0.65	<10	0.11	205	3	0.06	13	4320	35	9.15	5	4
196761		4.39	<10	1	0.49	<10	0.06	183	4	0.04	9	1400	28	5.09	4	3
196762		4.47	<10	<1	0.48	<10	0.07	109	4	0.04	11	1640	26	5.11	3	3
196763		3.56	<10	1	0.41	10	0.06	228	4	0.05	13	1190	37	4.15	6	3
196764		5.58	<10	1	0.44	10	0.05	192	5	0.04	17	2280	31	6.43	4	4
196765		6.95	<10	<1	0.51	<10	0.09	331	5	0.05	26	3480	24	8.10	4	4
196766		4.64	<10	1	0.43	<10	0.07	203	4	0.02	14	1340	27	5.24	5	3
196767		5.25	<10	1	0.50	<10	0.10	274	6	0.02	21	2350	18	6.19	3	4
196768		4.45	<10	<1	0.41	10	0.11	211	2	0.02	18	1020	21	5.15	6	3
196769		3.89	<10	1	0.43	10	0.27	306	3	0.03	15	1550	18	4.25	5	3
196770		3.66	<10	1	0.40	10	0.28	324	2	0.03	15	1470	18	3.98	3	3
196771		6.95	<10	1	0.56	10	0.14	639	7	0.02	13	2780	111	7.92	3	5
196772		3.38	<10	<1	0.39	10	0.29	294	3	0.05	12	1540	34	3.62	3	3
196773		3.43	<10	<1	0.40	10	0.24	625	5	0.02	12	1850	61	3.99	5	4
196774		3.26	<10	1	0.37	10	0.23	358	2	0.03	11	1580	31	3.63	<2	4
196775		6.11	<10	1	0.58	<10	0.22	519	5	0.03	14	3590	58	7.12	3	9
196776		6.31	<10	<1	0.81	<10	0.41	629	2	0.03	15	4120	66	7.23	3	16
196777		6.49	<10	1	0.62	10	0.43	761	3	0.03	14	4590	76	7.40	4	14
196778		6.57	<10	2	0.64	10	0.17	460	5	0.02	18	4130	53	7.56	2	9
196779		2.47	<10	2	0.38	90	0.07	346	3	0.02	69	>10000	124	2.88	3	2
196780		0.12	<10	<1	<0.01	<10	<0.01	5	<1	0.01	1	30	<2	0.14	<2	<1
196781		4.00	10	5	0.62	190	0.10	413	6	0.02	67	>10000	147	4.76	7	3
196782		5.47	<10	1	0.57	10	0.53	496	17	0.04	25	1560	66	6.13	5	9
196783		4.71	<10	1	0.45	10	0.31	458	19	0.04	16	1010	68	5.24	3	7
196784		4.18	<10	1	0.47	10	0.23	420	12	0.04	18	910	114	4.65	3	7
196785		3.95	<10	<1	0.44	<10	0.08	208	23	0.02	15	1030	52	4.32	3	4
196786		4.22	<10	2	0.44	10	0.11	361	18	0.02	23	940	119	4.67	4	6
196787		3.40	<10	1	0.46	10	0.07	266	12	0.02	42	1360	62	3.69	<2	3
196788		4.63	<10	1	0.48	10	0.08	260	22	0.02	18	850	98	5.07	5	4
196789		4.90	<10	2	0.45	10	0.27	591	15	0.02	24	830	102	5.47	3	4
196790		5.61	<10	2	0.43	10	0.25	634	13	0.02	25	780	136	6.31	6	4



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Page: 2 - C

Total # Pages: 3 (A - C)

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CERTIFICATE OF ANALYSIS TR07129897

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W	Zn
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
196751		145	<20	<0.01	60	<10	34	<10	139
196752		266	<20	<0.01	70	10	144	<10	328
196753		227	<20	<0.01	10	<10	136	10	99
196754		345	<20	<0.01	<10	<10	15	<10	98
196755		227	<20	<0.01	<10	<10	33	<10	101
196756		155	<20	<0.01	<10	<10	9	<10	36
196757		138	<20	<0.01	<10	<10	24	<10	68
196758		194	<20	<0.01	<10	<10	53	<10	46
196759		131	<20	<0.01	10	<10	64	10	48
196760		142	<20	<0.01	10	<10	68	<10	51
196761		117	<20	<0.01	<10	<10	29	<10	24
196762		213	<20	<0.01	<10	<10	27	<10	34
196763		137	<20	<0.01	<10	<10	22	<10	37
196764		118	<20	<0.01	<10	<10	34	<10	140
196765		135	<20	<0.01	10	<10	50	<10	266
196766		129	<20	<0.01	10	<10	22	<10	128
196767		159	<20	<0.01	<10	<10	40	<10	859
196768		142	<20	<0.01	10	<10	28	<10	14
196769		116	<20	<0.01	10	<10	39	<10	20
196770		116	<20	<0.01	10	<10	39	<10	15
196771		147	<20	<0.01	10	<10	73	<10	42
196772		108	<20	<0.01	<10	<10	41	<10	15
196773		424	<20	<0.01	<10	<10	33	<10	13
196774		153	<20	<0.01	10	<10	32	<10	19
196775		232	<20	<0.01	<10	<10	76	10	106
196776		208	<20	0.01	<10	<10	137	10	40
196777		228	<20	<0.01	10	<10	107	10	35
196778		178	<20	<0.01	<10	<10	88	10	17
196779		334	<20	<0.01	10	<10	179	<10	986
196780		2	<20	<0.01	10	<10	1	<10	4
196781		463	<20	<0.01	<10	<10	203	10	547
196782		144	<20	<0.01	<10	<10	60	10	209
196783		104	<20	<0.01	<10	<10	45	<10	342
196784		123	<20	<0.01	<10	<10	46	<10	621
196785		138	<20	<0.01	<10	<10	26	<10	159
196786		110	<20	<0.01	10	<10	45	<10	388
196787		115	<20	<0.01	<10	<10	46	10	197
196788		94	<20	<0.01	10	<10	40	10	381
196789		240	<20	<0.01	70	<10	45	10	39
196790		191	<20	<0.01	120	<10	45	20	89



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
196791		2.72	0.333		1.1	1.17	102	10	20	1.5	<2	1.34	<0.5	30	3	381
196792		4.74	0.341		0.9	1.01	114	10	40	1.3	<2	1.13	<0.5	23	4	244
196793		2.41	0.349		1.2	1.10	94	10	20	1.3	<2	1.70	<0.5	26	4	330
196794		2.71	0.214		1.2	0.76	87	10	10	0.7	<2	1.32	2.6	19	11	626
196795		1.83	0.617		1.1	1.12	76	10	30	1.5	<2	1.05	1.2	23	4	188
196796		4.26	0.279		0.7	0.83	90	10	10	0.9	<2	0.89	6.8	20	8	635
196797		4.61	0.395		1.4	1.02	90	10	20	1.1	<2	0.56	1.1	29	4	542
196798		4.93	0.209		0.6	1.10	83	10	20	1.3	<2	2.15	<0.5	24	2	288
196799		2.29	0.168		1.0	1.05	135	10	20	1.2	<2	2.00	<0.5	27	1	262
196800		2.43	0.164		1.0	0.98	136	10	10	1.2	3	1.96	<0.5	25	1	244
196801		5.14	0.236		0.9	0.97	110	10	20	1.2	<2	1.32	<0.5	22	<1	219
196802		4.34	0.256		0.3	0.99	95	<10	20	1.0	<2	1.70	<0.5	22	2	183
196803		1.69	0.304		0.4	0.93	129	10	10	1.0	<2	1.89	<0.5	22	12	220
196804		4.49	0.423		0.7	1.01	188	<10	20	0.8	<2	3.32	1.0	24	113	390
196805		4.90	0.166		1.0	1.10	101	10	30	1.4	<2	2.63	<0.5	34	62	1700
196806		4.29	0.066		0.8	1.01	94	10	30	1.1	<2	3.17	<0.5	27	45	639
196807		4.52	0.117		0.6	0.90	116	10	20	1.0	<2	2.35	<0.5	26	13	460
196808		3.34	0.552		1.2	0.71	136	<10	10	0.8	<2	2.50	<0.5	33	32	793
196809		Not Recvd														
196810		0.06	1.015	0.97	38.7	0.71	1350	20	60	<0.5	31	3.34	0.5	41	179	4580
196811		5.01	0.347		1.2	0.91	79	<10	20	1.1	<2	2.18	<0.5	36	56	1530
196812		2.66	0.545		1.1	0.69	125	<10	10	0.8	<2	2.00	14.0	24	17	306
196813		3.13	0.251		0.3	0.61	138	<10	20	0.6	<2	1.29	5.3	11	38	147
196814		3.32	0.199		1.4	0.72	228	<10	10	0.8	2	1.22	13.7	41	30	544
196815		3.87	0.199		4.1	0.63	208	<10	10	0.8	<2	1.44	2.9	34	36	472
196816		3.80	0.115		1.3	0.62	140	<10	10	0.8	<2	0.98	3.6	29	31	304
196817		4.02	0.117		1.5	0.74	221	<10	10	1.4	<2	1.28	0.6	18	19	296
196818		3.66	0.033		0.2	0.69	33	<10	30	1.0	<2	0.74	<0.5	8	2	159
196819		2.06	0.035		<0.2	0.49	22	<10	40	0.7	<2	1.05	<0.5	5	2	151
196820		2.19	<0.005		0.2	0.53	31	<10	50	0.7	<2	1.12	<0.5	5	3	155
196821		3.62	0.040		0.3	0.88	120	10	10	1.4	<2	1.55	0.6	30	<1	193
196822		1.55	0.059		0.3	0.64	44	<10	30	0.8	<2	0.70	<0.5	8	2	168
196823		3.08	0.107		0.4	0.69	63	<10	40	1.1	<2	0.90	<0.5	9	4	328
196824		3.03	0.034		0.4	0.72	78	<10	30	1.0	<2	0.97	<0.5	9	5	211
196825		4.91	0.060		0.4	0.79	83	<10	20	1.1	<2	1.20	<0.5	15	1	165
196826		4.62	0.049		0.2	0.71	45	<10	80	0.9	<2	0.72	<0.5	6	3	173
196827		4.81	0.486		1.8	0.66	116	<10	20	1.1	<2	1.35	<0.5	9	2	510
196828		4.10	0.284		0.9	0.73	77	<10	20	1.0	<2	0.80	2.2	10	3	332
196829		1.18	0.059		0.4	0.59	54	<10	20	0.8	<2	0.94	2.1	6	2	86
196830		1.25	0.058		0.3	0.59	53	<10	10	0.9	<2	0.69	0.9	7	3	93



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Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07129897

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
196791		6.27	<10	1	0.68	<10	0.23	761	13	0.03	17	2610	69	7.14	3
196792		5.58	<10	<1	0.61	<10	0.24	754	8	0.03	18	2600	76	6.30	5
196793		5.78	<10	1	0.65	10	0.45	938	15	0.04	13	2020	83	6.50	2
196794		6.27	<10	1	0.48	10	0.28	902	12	0.04	20	980	89	7.14	2
196795		4.64	<10	1	0.66	10	0.30	727	32	0.04	15	1050	88	5.18	<2
196796		6.04	<10	3	0.49	<10	0.26	678	21	0.04	17	780	83	6.92	4
196797		6.42	<10	1	0.58	10	0.15	629	67	0.05	15	940	103	7.30	3
196798		6.12	<10	1	0.68	10	0.52	926	2	0.05	7	3830	96	6.84	5
196799		5.71	<10	<1	0.63	<10	0.49	950	3	0.05	9	3320	76	6.39	5
196800		5.71	<10	<1	0.60	<10	0.42	969	2	0.05	9	3320	81	6.43	6
196801		6.03	<10	2	0.58	<10	0.14	802	1	0.03	9	3380	70	7.01	5
196802		5.68	<10	<1	0.59	<10	0.31	932	<1	0.05	9	3510	50	6.51	3
196803		5.88	<10	3	0.56	10	0.22	1020	2	0.05	18	4710	44	6.86	4
196804		6.30	10	2	0.53	120	0.31	2050	6	0.03	103	>10000	62	7.60	10
196805		5.51	<10	2	0.65	30	0.71	1740	21	0.03	53	2920	37	6.23	4
196806		5.07	<10	1	0.59	20	0.64	1780	15	0.04	41	2700	31	5.73	4
196807		6.49	<10	1	0.58	10	0.55	1370	5	0.04	19	3170	50	7.38	6
196808		8.06	<10	3	0.41	10	0.26	1780	9	0.02	119	1520	56	9.50	5
196809															
196810		2.18	<10	1	0.11	10	0.20	602	645	0.05	19	570	70	0.81	85
196811		6.32	<10	1	0.56	30	0.57	1220	20	0.03	55	2760	34	7.18	<2
196812		7.36	<10	3	0.39	20	0.27	1380	7	0.02	193	970	46	8.75	4
196813		3.77	<10	1	0.36	10	0.20	1340	7	0.02	206	770	52	4.37	6
196814		8.80	<10	2	0.40	20	0.27	1790	28	0.02	183	1050	71	>10.0	14
196815		8.04	<10	2	0.35	20	0.18	1810	43	0.02	234	1250	70	9.42	10
196816		6.12	<10	1	0.36	30	0.16	1200	10	0.02	222	1080	60	7.06	5
196817		8.19	<10	1	0.43	120	0.09	1660	18	0.02	155	920	81	9.57	4
196818		2.88	<10	<1	0.44	10	0.14	471	3	0.06	6	670	13	3.13	3
196819		2.10	<10	<1	0.34	20	0.14	452	1	0.06	4	390	6	2.30	2
196820		2.40	<10	1	0.35	20	0.15	494	1	0.07	3	420	8	2.64	2
196821		7.29	<10	1	0.52	<10	0.28	967	4	0.03	13	3020	26	8.40	4
196822		3.47	<10	<1	0.44	10	0.14	555	1	0.05	4	730	22	3.79	<2
196823		3.76	<10	1	0.44	20	0.13	590	4	0.04	6	1050	28	4.16	<2
196824		3.93	<10	<1	0.46	10	0.11	602	4	0.04	7	1050	32	4.36	3
196825		4.42	<10	1	0.51	10	0.18	754	2	0.03	8	1430	29	4.94	2
196826		2.69	<10	<1	0.48	10	0.13	479	2	0.04	5	720	21	2.93	2
196827		4.21	<10	3	0.45	10	0.13	732	4	0.03	6	720	23	4.76	7
196828		3.67	<10	1	0.48	10	0.15	519	3	0.03	5	870	26	4.08	3
196829		3.69	<10	1	0.42	10	0.19	562	2	0.04	5	630	24	4.13	<2
196830		3.85	<10	1	0.42	10	0.13	469	4	0.02	5	640	19	4.02	<2



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Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07129897

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Tl	U	V	W	Zn
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
196791		136	<20	<0.01	10	<10	63	10	21
196792		102	<20	<0.01	10	<10	58	10	18
196793		121	<20	<0.01	<10	<10	74	<10	34
196794		140	<20	<0.01	<10	<10	63	<10	585
196795		110	<20	<0.01	<10	<10	62	10	245
196796		96	<20	<0.01	<10	<10	51	<10	1480
196797		74	<20	<0.01	<10	<10	54	10	274
196798		146	<20	<0.01	<10	<10	96	10	35
196799		135	<20	<0.01	<10	<10	97	10	29
196800		137	<20	<0.01	<10	<10	89	10	27
196801		136	<20	<0.01	<10	<10	78	10	18
196802		125	<20	<0.01	<10	<10	101	10	29
196803		155	<20	<0.01	<10	<10	112	10	70
196804		233	<20	<0.01	<10	<10	273	60	190
196805		150	<20	<0.01	<10	<10	125	10	37
196806		231	<20	<0.01	<10	<10	112	10	34
196807		131	<20	<0.01	<10	<10	159	10	40
196808		156	<20	<0.01	<10	<10	287	10	50
196809									
196810		130	<20	0.03	<10	<10	17	10	83
196811		144	<20	<0.01	<10	<10	148	10	37
196812		117	<20	<0.01	<10	<10	409	<10	3220
196813		110	<20	<0.01	<10	<10	374	70	1520
196814		84	<20	<0.01	<10	<10	279	80	3120
196815		101	<20	<0.01	<10	<10	314	50	847
196816		109	<20	<0.01	<10	<10	218	10	876
196817		128	<20	<0.01	<10	10	242	10	67
196818		120	<20	<0.01	<10	<10	29	<10	71
196819		130	<20	<0.01	<10	<10	20	<10	37
196820		138	<20	<0.01	<10	<10	20	<10	24
196821		123	<20	<0.01	<10	<10	78	10	52
196822		112	<20	<0.01	<10	<10	32	<10	59
196823		129	<20	<0.01	<10	<10	34	10	57
196824		153	<20	<0.01	<10	<10	38	10	89
196825		139	<20	<0.01	<10	<10	47	10	65
196826		145	<20	<0.01	<10	<10	28	<10	27
196827		214	<20	<0.01	<10	<10	29	<10	137
196828		155	<20	<0.01	<10	<10	32	<10	417
196829		159	<20	<0.01	<10	<10	23	<10	1960
196830		126	<20	<0.01	<10	<10	22	<10	693



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CERTIFICATE TR07098505

Project: Voigtberg

P.O. No.: BCG07-01

This report is for 38 Drill Core samples submitted to our lab in Terrace, BC, Canada on 5-SEP-2007.

The following have access to data associated with this certificate:

ANDREW BROWN
RORY KUTLUOGLU

BRIAN FOWLER
FREEMAN SMITH

QUITY ENGINEERING GENERAL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A

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CERTIFICATE OF ANALYSIS TR07098505

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
196831		6.89	<0.2	0.56	40	<10	30	0.9	<2	0.59	<0.5	6	3	105	3.08	<10
196832		4.39	<0.2	0.51	44	<10	30	0.9	<2	0.48	<0.5	6	3	117	3.40	<10
196833		4.49	<0.2	0.52	32	<10	20	0.8	<2	0.50	<0.5	6	3	82	2.81	<10
196834		3.85	<0.2	0.47	39	<10	30	0.8	<2	0.57	0.5	6	3	84	2.59	<10
196835		2.54	0.3	0.43	43	<10	20	0.7	<2	0.86	0.9	6	3	113	2.61	<10
196836		3.01	0.4	0.44	43	<10	30	0.7	<2	1.00	1.5	7	4	113	2.72	<10
196837		4.79	2.4	0.53	239	<10	10	1.0	2	0.91	3.1	20	9	601	5.92	<10
196838		4.26	<0.2	0.46	30	<10	20	0.7	<2	0.59	1.1	7	3	61	2.52	<10
196839		6.02	<0.2	0.42	33	<10	30	0.6	<2	0.67	0.5	7	2	120	2.39	<10
196840		0.08	<0.2	0.01	3	<10	10	<0.5	<2	<0.01	<0.5	<1	<1	1	0.02	<10
196841		4.51	<0.2	0.56	44	<10	20	0.8	<2	0.72	1.3	8	3	91	2.98	<10
196842		3.99	0.2	0.45	49	<10	20	0.8	<2	0.39	2.5	6	2	84	2.82	<10
196843		2.44	<0.2	0.49	42	<10	20	0.8	<2	0.49	1.4	5	3	63	2.57	<10
196844		5.65	0.4	0.58	42	10	20	0.8	<2	1.27	<0.5	8	2	82	3.14	<10
196845		5.16	1.3	0.80	114	10	10	0.9	<2	1.52	<0.5	30	<1	247	7.65	<10
196846		5.27	0.7	0.75	99	10	10	1.1	<2	2.48	<0.5	28	<1	207	6.26	<10
196847		2.12	2.0	0.70	125	10	10	0.9	<2	1.58	<0.5	29	<1	131	8.61	<10
196848		5.18	1.8	0.88	99	10	10	1.1	3	1.42	<0.5	34	<1	206	8.28	<10
196849		3.16	0.2	0.54	15	<10	30	0.7	<2	1.59	<0.5	5	2	49	2.43	<10
196850		3.13	0.5	0.55	19	<10	20	0.7	<2	1.59	<0.5	6	2	57	2.59	<10
196851		2.02	0.3	1.03	59	10	30	1.4	2	4.09	<0.5	34	<1	214	6.32	<10
196852		3.96	0.5	0.64	28	10	30	0.8	<2	1.44	<0.5	8	2	87	2.70	<10
196853		5.49	2.9	1.05	96	10	10	1.5	3	1.14	<0.5	34	1	291	7.28	<10
196854		4.85	3.2	1.06	165	10	10	1.3	<2	1.14	<0.5	39	2	290	8.57	<10
196855		4.66	2.4	1.08	124	10	10	1.4	2	1.34	0.9	33	1	241	7.65	<10
196856		4.69	3.4	1.14	84	10	10	1.6	2	1.58	<0.5	31	<1	131	6.84	<10
196857		4.19	0.7	0.95	135	10	10	1.2	<2	1.69	1.4	22	2	170	5.67	<10
196858		4.70	0.5	0.62	31	10	120	1.0	<2	1.04	0.5	3	2	168	1.43	<10
196859		2.23	1.6	0.77	123	10	10	1.0	<2	2.17	<0.5	24	1	112	5.26	<10
196860		1.97	1.8	0.78	128	10	10	1.0	<2	1.88	<0.5	22	1	109	5.56	<10
196861		4.12	0.2	0.64	20	10	60	0.8	<2	2.19	<0.5	4	5	89	1.46	<10
196862		4.66	0.6	0.73	22	10	20	1.0	<2	2.17	<0.5	7	2	166	3.66	<10
196863		3.36	0.5	0.66	49	10	20	0.9	<2	1.28	<0.5	7	3	289	3.31	<10
196864		2.50	0.9	0.98	73	10	20	1.4	2	3.38	<0.5	22	2	477	5.96	<10
196865		4.82	0.5	0.85	19	10	40	1.4	<2	0.87	<0.5	7	2	72	2.78	<10
196866		4.88	1.3	0.68	22	<10	40	1.1	<2	0.62	28.9	6	4	586	2.00	<10
196867		3.27	0.2	0.43	11	<10	50	0.5	<2	1.65	<0.5	6	6	104	1.85	<10
196868		1.57	0.4	1.22	81	10	30	1.6	3	4.88	<0.5	34	1	184	7.19	<10

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CERTIFICATE OF ANALYSIS TR07098505

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
196831		1	0.39	10	0.13	437	3	0.04	6	610	18	3.38	<2	1	122
196832		<1	0.35	10	0.07	328	4	0.03	6	640	20	3.76	<2	1	108
196833		<1	0.36	10	0.08	317	3	0.04	5	670	20	3.09	<2	1	112
196834		<1	0.33	20	0.07	363	2	0.05	6	610	24	2.88	<2	1	114
196835		<1	0.31	10	0.12	499	3	0.04	5	570	31	2.96	<2	1	113
196836		<1	0.31	20	0.17	593	3	0.05	7	600	37	3.05	<2	1	141
196837		2	0.32	10	0.06	901	6	0.02	35	1210	55	6.79	9	2	388
196838		<1	0.31	20	0.06	360	3	0.04	6	630	29	2.83	<2	1	145
196839		<1	0.30	20	0.08	475	4	0.04	6	610	24	2.66	<2	1	135
196840		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	10	<2	0.02	<2	<1	1
196841		<1	0.39	10	0.06	452	4	0.04	7	620	33	3.44	<2	1	160
196842		1	0.31	20	0.05	310	4	0.03	5	630	37	3.19	<2	1	120
196843		<1	0.35	20	0.05	343	3	0.03	6	590	31	2.89	<2	1	121
196844		1	0.40	10	0.18	777	2	0.02	8	960	25	3.55	<2	3	300
196845		<1	0.50	<10	0.20	1240	1	0.02	15	3090	28	8.96	2	7	210
196846		1	0.48	<10	0.31	1265	2	0.02	14	2730	27	7.16	3	7	280
196847		<1	0.45	<10	0.21	1130	3	0.02	15	2630	41	9.74	2	4	110
196848		<1	0.54	<10	0.20	1000	<1	0.01	15	3020	35	9.34	<2	6	202
196849		1	0.40	10	0.25	539	1	0.03	5	670	9	2.54	<2	2	535
196850		1	0.40	10	0.27	555	2	0.03	6	640	8	2.71	2	2	452
196851		<1	0.66	10	0.92	1650	<1	0.04	12	4320	23	6.51	2	16	324
196852		<1	0.45	10	0.25	569	1	0.03	8	950	14	2.86	<2	3	327
196853		2	0.57	<10	0.19	471	24	0.01	20	2910	37	8.17	5	7	381
196854		1	0.62	<10	0.17	1170	2	0.01	26	3470	94	9.73	5	8	201
196855		<1	0.58	<10	0.10	729	3	0.01	18	3670	63	8.76	3	6	164
196856		<1	0.64	<10	0.17	595	2	0.01	10	4030	35	7.77	<2	7	156
196857		1	0.55	<10	0.14	618	3	0.02	11	2640	35	6.42	5	4	168
196858		<1	0.36	10	0.05	250	1	0.01	7	540	45	1.48	2	1	179
196859		<1	0.50	<10	0.45	1390	1	<0.01	11	1960	62	6.01	6	6	146
196860		1	0.48	10	0.31	1080	2	0.01	15	2000	65	6.31	2	6	153
196861		<1	0.43	10	0.10	470	1	0.01	9	560	33	1.51	<2	2	210
196862		<1	0.46	10	0.11	593	10	0.01	9	670	22	4.22	<2	2	211
196863		<1	0.42	10	0.14	566	2	0.01	8	1250	33	3.72	<2	2	141
196864		<1	0.57	10	0.16	933	4	0.02	13	3000	57	7.04	2	6	256
196865		<1	0.51	<10	0.11	237	5	0.01	9	1120	17	3.06	2	2	124
196866		7	0.39	<10	0.05	126	3	<0.01	8	990	19	2.42	<2	1	157
196867		<1	0.34	<10	0.12	414	1	0.02	9	420	13	1.94	<2	2	181
196868		<1	0.72	10	1.06	1980	<1	0.02	27	3210	73	8.09	3	29	190

Comments: **CORRECTED COPY for PO #**



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Page: 2 - C

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Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07098505

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-AA23
		Ti	Ti	U	V	W	Zn	Au
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.005
196831		<0.01	<10	<10	24	<10	44	0.053
196832		<0.01	<10	<10	19	<10	58	0.043
196833		<0.01	<10	<10	21	<10	35	0.024
196834		<0.01	<10	<10	19	<10	112	0.021
196835		<0.01	<10	<10	21	<10	447	0.066
196836		<0.01	<10	<10	22	<10	484	0.041
196837		<0.01	<10	<10	44	<10	641	0.488
196838		<0.01	<10	<10	17	<10	406	0.030
196839		<0.01	<10	<10	17	<10	229	0.053
196840		<0.01	<10	<10	<1	<10	4	<0.005
196841		<0.01	<10	<10	19	<10	970	0.080
196842		<0.01	<10	<10	15	<10	1420	0.041
196843		<0.01	<10	<10	16	<10	771	0.037
196844		<0.01	<10	<10	29	<10	21	0.065
196845		<0.01	10	<10	73	<10	38	0.090
196846		<0.01	10	<10	55	<10	30	0.172
196847		<0.01	<10	<10	58	<10	37	0.256
196848		<0.01	<10	<10	68	<10	36	0.119
196849		<0.01	10	<10	21	<10	54	0.022
196850		<0.01	<10	<10	21	<10	17	0.047
196851		0.01	<10	<10	86	<10	42	0.022
196852		<0.01	10	<10	24	10	58	0.033
196853		<0.01	<10	<10	57	<10	210	0.413
196854		<0.01	<10	<10	73	<10	99	0.138
196855		<0.01	10	<10	61	<10	216	0.646
196856		<0.01	<10	<10	52	<10	18	0.229
196857		<0.01	10	<10	41	<10	220	0.142
196858		<0.01	10	<10	10	<10	164	0.097
196859		<0.01	<10	<10	52	<10	43	0.241
196860		<0.01	<10	<10	47	<10	61	0.182
196861		<0.01	10	<10	14	<10	91	0.086
196862		<0.01	<10	<10	15	<10	55	0.063
196863		<0.01	<10	<10	27	<10	26	0.130
196864		<0.01	<10	<10	51	<10	36	0.239
196865		<0.01	<10	<10	18	<10	11	0.114
196866		<0.01	<10	<10	13	<10	5560	0.304
196867		<0.01	10	<10	14	<10	26	0.045
196868		0.01	<10	<10	90	10	77	0.015

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Page: 1

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Account: EIABCG

CERTIFICATE TR07098505

Project: Voigtberg

P.O. No.: BCG07-03

This report is for 38 Drill Core samples submitted to our lab in Terrace, BC, Canada on 5-SEP-2007.

The following have access to data associated with this certificate:

ANDREW BROWN
FREEMAN SMITH

QUITY ENGINEERING GENERA

RORY KUTLUOGLU

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: EQUITY ENGINEERING LTD.
ATTN: EQUITY ENGINEERING GENERAL
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A

Total # Pages: 2 (A - C)

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Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07098505

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
196831		6.89	<0.2	0.56	40	<10	30	0.9	<2	0.59	<0.5	6	3	105	3.08	<10
196832		4.39	<0.2	0.51	44	<10	30	0.9	<2	0.48	<0.5	6	3	117	3.40	<10
196833		4.49	<0.2	0.52	32	<10	20	0.8	<2	0.50	<0.5	6	3	82	2.81	<10
196834		3.85	<0.2	0.47	39	<10	30	0.8	<2	0.57	0.5	6	3	84	2.59	<10
196835		2.54	0.3	0.43	43	<10	20	0.7	<2	0.86	0.9	6	3	113	2.61	<10
196836		3.01	0.4	0.44	43	<10	30	0.7	<2	1.00	1.5	7	4	113	2.72	<10
196837		4.79	2.4	0.53	239	<10	10	1.0	2	0.91	3.1	20	9	601	5.92	<10
196838		4.26	<0.2	0.46	30	<10	20	0.7	<2	0.59	1.1	7	3	61	2.52	<10
196839		6.02	<0.2	0.42	33	<10	30	0.6	<2	0.67	0.5	7	2	120	2.39	<10
196840		0.08	<0.2	0.01	3	<10	10	<0.5	<2	<0.01	<0.5	<1	<1	1	0.02	<10
196841		4.51	<0.2	0.56	44	<10	20	0.8	<2	0.72	1.3	8	3	91	2.98	<10
196842		3.99	0.2	0.45	49	<10	20	0.8	<2	0.39	2.5	6	2	84	2.82	<10
196843		2.44	<0.2	0.49	42	<10	20	0.8	<2	0.49	1.4	5	3	63	2.57	<10
196844		5.65	0.4	0.58	42	10	20	0.8	<2	1.27	<0.5	8	2	82	3.14	<10
196845		5.16	1.3	0.80	114	10	10	0.9	<2	1.52	<0.5	30	<1	247	7.65	<10
196846		5.27	0.7	0.75	99	10	10	1.1	<2	2.48	<0.5	28	<1	207	6.26	<10
196847		2.12	2.0	0.70	125	10	10	0.9	<2	1.58	<0.5	29	<1	131	8.61	<10
196848		5.18	1.8	0.88	99	10	10	1.1	3	1.42	<0.5	34	<1	206	8.28	<10
196849		3.16	0.2	0.54	15	<10	30	0.7	<2	1.59	<0.5	5	2	49	2.43	<10
196850		3.13	0.5	0.55	19	<10	20	0.7	<2	1.59	<0.5	6	2	57	2.59	<10
196851		2.02	0.3	1.03	59	10	30	1.4	2	4.09	<0.5	34	<1	214	6.32	<10
196852		3.96	0.5	0.64	28	10	30	0.8	<2	1.44	<0.5	8	2	87	2.70	<10
196853		5.49	2.9	1.05	96	10	10	1.5	3	1.14	<0.5	34	1	291	7.28	<10
196854		4.85	3.2	1.06	165	10	10	1.3	<2	1.14	<0.5	39	2	290	8.57	<10
196855		4.66	2.4	1.08	124	10	10	1.4	2	1.34	0.9	33	1	241	7.65	<10
196856		4.69	3.4	1.14	84	10	10	1.6	2	1.58	<0.5	31	<1	131	6.84	<10
196857		4.19	0.7	0.95	135	10	10	1.2	<2	1.69	1.4	22	2	170	5.67	<10
196858		4.70	0.5	0.62	31	10	120	1.0	<2	1.04	0.5	3	2	168	1.43	<10
196859		2.23	1.6	0.77	123	10	10	1.0	<2	2.17	<0.5	24	1	112	5.26	<10
196860		1.97	1.8	0.78	128	10	10	1.0	<2	1.88	<0.5	22	1	109	5.56	<10
196861		4.12	0.2	0.64	20	10	60	0.8	<2	2.19	<0.5	4	5	89	1.46	<10
196862		4.66	0.6	0.73	22	10	20	1.0	<2	2.17	<0.5	7	2	166	3.66	<10
196863		3.36	0.5	0.66	49	10	20	0.9	<2	1.28	<0.5	7	3	289	3.31	<10
196864		2.50	0.9	0.98	73	10	20	1.4	2	3.38	<0.5	22	2	477	5.96	<10
196865		4.82	0.5	0.85	19	10	40	1.4	<2	0.87	<0.5	7	2	72	2.78	<10
196866		4.88	1.3	0.68	22	<10	40	1.1	<2	0.62	28.9	6	4	586	2.00	<10
196867		3.27	0.2	0.43	11	<10	50	0.5	<2	1.65	<0.5	6	6	104	1.85	<10
196868		1.57	0.4	1.22	81	10	30	1.6	3	4.88	<0.5	34	1	184	7.19	<10



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Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS TR07098505

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
196831		1	0.39	10	0.13	437	3	0.04	6	610	18	3.38	<2	1	122
196832		<1	0.35	10	0.07	328	4	0.03	6	640	20	3.76	<2	1	108
196833		<1	0.36	10	0.08	317	3	0.04	5	670	20	3.09	<2	1	112
196834		<1	0.33	20	0.07	363	2	0.05	6	610	24	2.88	<2	1	114
196835		<1	0.31	10	0.12	499	3	0.04	5	570	31	2.96	<2	1	113
196836		<1	0.31	20	0.17	593	3	0.05	7	600	37	3.05	<2	1	141
196837		2	0.32	10	0.06	901	6	0.02	35	1210	55	6.79	9	2	388
196838		<1	0.31	20	0.06	360	3	0.04	6	630	29	2.83	<2	1	145
196839		<1	0.30	20	0.08	475	4	0.04	6	610	24	2.66	<2	1	135
196840		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	10	<2	0.02	<2	<1	1
196841		<1	0.39	10	0.06	452	4	0.04	7	620	33	3.44	<2	1	160
196842		1	0.31	20	0.05	310	4	0.03	5	630	37	3.19	<2	1	120
196843		<1	0.35	20	0.05	343	3	0.03	6	590	31	2.89	<2	1	121
196844		1	0.40	10	0.18	777	2	0.02	8	960	25	3.55	<2	3	300
196845		<1	0.50	<10	0.20	1240	1	0.02	15	3090	28	8.96	2	7	210
196846		1	0.48	<10	0.31	1265	2	0.02	14	2730	27	7.16	3	7	280
196847		<1	0.45	<10	0.21	1130	3	0.02	15	2630	41	9.74	2	4	110
196848		<1	0.54	<10	0.20	1000	<1	0.01	15	3020	35	9.34	<2	6	202
196849		1	0.40	10	0.25	539	1	0.03	5	670	9	2.54	<2	2	535
196850		1	0.40	10	0.27	555	2	0.03	6	640	8	2.71	2	2	452
196851		<1	0.66	10	0.92	1650	<1	0.04	12	4320	23	6.51	2	16	324
196852		<1	0.45	10	0.25	569	1	0.03	8	950	14	2.86	<2	3	327
196853		2	0.57	<10	0.19	471	24	0.01	20	2910	37	8.17	5	7	381
196854		1	0.62	<10	0.17	1170	2	0.01	26	3470	94	9.73	5	8	201
196855		<1	0.58	<10	0.10	729	3	0.01	18	3670	63	8.76	3	6	164
196856		<1	0.64	<10	0.17	595	2	0.01	10	4030	35	7.77	<2	7	156
196857		1	0.55	<10	0.14	618	3	0.02	11	2640	35	6.42	5	4	168
196858		<1	0.36	10	0.05	250	1	0.01	7	540	45	1.48	2	1	179
196859		<1	0.50	<10	0.45	1390	1	<0.01	11	1960	62	6.01	6	6	146
196860		1	0.48	10	0.31	1080	2	0.01	15	2000	65	6.31	2	6	153
196861		<1	0.43	10	0.10	470	1	0.01	9	560	33	1.51	<2	2	210
196862		<1	0.46	10	0.11	593	10	0.01	9	670	22	4.22	<2	2	211
196863		<1	0.42	10	0.14	566	2	0.01	8	1250	33	3.72	<2	2	141
196864		<1	0.57	10	0.16	933	4	0.02	13	3000	57	7.04	2	6	256
196865		<1	0.51	<10	0.11	237	5	0.01	9	1120	17	3.06	2	2	124
196866		7	0.39	<10	0.05	126	3	<0.01	8	990	19	2.42	<2	1	157
196867		<1	0.34	<10	0.12	414	1	0.02	9	420	13	1.94	<2	2	181
196868		<1	0.72	10	1.06	1980	<1	0.02	27	3210	73	8.09	3	29	190



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CERTIFICATE OF ANALYSIS TR07098505

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-AA23
		Ti	Ti	U	V	W	Zn	Au
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.005
196831		<0.01	<10	<10	24	<10	44	0.053
196832		<0.01	<10	<10	19	<10	58	0.043
196833		<0.01	<10	<10	21	<10	35	0.024
196834		<0.01	<10	<10	19	<10	112	0.021
196835		<0.01	<10	<10	21	<10	447	0.066
196836		<0.01	<10	<10	22	<10	484	0.041
196837		<0.01	<10	<10	44	<10	641	0.488
196838		<0.01	<10	<10	17	<10	406	0.030
196839		<0.01	<10	<10	17	<10	229	0.053
196840		<0.01	<10	<10	<1	<10	4	<0.005
196841		<0.01	<10	<10	19	<10	970	0.080
196842		<0.01	<10	<10	15	<10	1420	0.041
196843		<0.01	<10	<10	16	<10	771	0.037
196844		<0.01	<10	<10	29	<10	21	0.065
196845		<0.01	10	<10	73	<10	38	0.090
196846		<0.01	10	<10	55	<10	30	0.172
196847		<0.01	<10	<10	58	<10	37	0.256
196848		<0.01	<10	<10	68	<10	36	0.119
196849		<0.01	10	<10	21	<10	54	0.022
196850		<0.01	<10	<10	21	<10	17	0.047
196851		0.01	<10	<10	86	<10	42	0.022
196852		<0.01	10	<10	24	10	58	0.033
196853		<0.01	<10	<10	57	<10	210	0.413
196854		<0.01	<10	<10	73	<10	99	0.138
196855		<0.01	10	<10	61	<10	216	0.646
196856		<0.01	<10	<10	52	<10	18	0.229
196857		<0.01	10	<10	41	<10	220	0.142
196858		<0.01	10	<10	10	<10	164	0.097
196859		<0.01	<10	<10	52	<10	43	0.241
196860		<0.01	<10	<10	47	<10	61	0.182
196861		<0.01	10	<10	14	<10	91	0.086
196862		<0.01	<10	<10	15	<10	55	0.063
196863		<0.01	<10	<10	27	<10	26	0.130
196864		<0.01	<10	<10	51	<10	36	0.239
196865		<0.01	<10	<10	18	<10	11	0.114
196866		<0.01	<10	<10	13	<10	5560	0.304
196867		<0.01	10	<10	14	<10	26	0.045
196868		0.01	<10	<10	90	10	77	0.015



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CERTIFICATE RE07128723

Project: bcg07-03

P.O. No.:

This report is for 44 Drill Core samples submitted to our lab in Reno, NV, USA on 17-SEP-2007.

The following have access to data associated with this certificate:

ANDREW BROWN
RORY KUTLUOGLU

BRIAN FOWLER
FREEMAN SMITH

QUITY ENGINEERING GENERAL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim 'or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project.

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A

Total # Pages: 3 (A - C)

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Project: bcg07-03

CERTIFICATE OF ANALYSIS RE07128723

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
331251		2.27	1.685	7.3	0.27	321	<10	70	<0.5	<2	6.44	<0.5	19	1	130	3.55
331252		4.20	1.075	5.8	0.53	267	<10	50	0.5	2	6.80	<0.5	20	<1	167	4.30
331253		2.74	0.192	1.9	0.53	65	<10	70	0.5	<2	5.18	<0.5	19	<1	145	3.32
331254		3.28	0.251	3.0	0.45	45	<10	80	<0.5	<2	7.79	<0.5	26	<1	186	3.17
331255		2.21	0.103	1.0	0.42	36	<10	60	0.5	<2	8.18	<0.5	30	<1	128	3.54
331256		4.01	0.124	0.8	0.49	61	<10	70	0.6	<2	7.05	0.6	20	<1	106	3.36
331257		4.37	0.108	1.0	0.48	66	<10	50	0.5	<2	6.67	<0.5	16	<1	129	3.83
331258		4.91	0.627	2.6	0.89	152	<10	80	0.8	<2	5.19	<0.5	20	1	146	4.13
331259		4.65	0.939	7.3	0.54	134	<10	70	0.6	<2	8.19	0.7	19	<1	160	3.83
331260		0.13	<0.005	<0.2	0.04	<2	<10	30	<0.5	<2	0.07	<0.5	<1	1	4	0.36
331261		3.84	0.190	1.3	0.41	69	<10	60	<0.5	<2	7.61	<0.5	15	2	202	4.08
331262		3.83	0.146	0.9	0.51	42	<10	90	0.5	2	6.38	<0.5	14	<1	155	3.69
331263		4.79	0.114	0.8	0.50	41	<10	70	0.6	<2	5.91	<0.5	18	<1	124	3.64
331264		5.74	0.136	0.6	0.62	18	<10	110	0.6	<2	6.44	<0.5	18	<1	106	2.54
331265		3.34	0.104	0.8	0.49	50	<10	150	<0.5	<2	8.50	<0.5	22	<1	121	2.96
331266		3.50	0.344	1.2	0.48	53	<10	100	0.6	<2	8.44	<0.5	22	<1	188	3.90
331267		6.17	0.166	1.3	0.52	33	<10	110	0.6	<2	6.75	<0.5	25	<1	175	3.03
331268		4.27	1.395	3.5	0.44	82	<10	90	0.5	<2	8.22	<0.5	18	<1	187	4.02
331269		1.44	0.091	0.5	0.79	18	<10	160	0.8	<2	6.81	<0.5	19	1	149	3.66
331270		1.67	0.360	0.7	0.69	33	<10	60	0.6	<2	7.85	<0.5	30	4	145	4.75
331271		4.94	0.054	0.4	0.77	15	<10	100	0.8	<2	7.00	<0.5	21	1	158	3.67
331272		4.30	0.055	0.5	0.59	31	<10	60	0.6	<2	6.99	<0.5	35	<1	168	4.52
331273		4.83	0.089	0.6	0.72	28	<10	70	0.7	<2	8.15	<0.5	28	1	143	4.23
331274		4.01	0.096	1.4	0.65	43	<10	60	0.7	<2	8.02	<0.5	36	1	160	5.15
331275		5.16	0.193	1.0	0.56	63	<10	40	0.7	<2	8.21	<0.5	27	<1	178	5.52
331276		4.36	1.365	2.8	0.28	384	<10	30	<0.5	<2	7.71	<0.5	39	<1	160	7.01
331277		5.03	0.882	1.9	0.65	212	<10	50	0.7	<2	7.30	<0.5	33	<1	233	5.22
331278		4.99	0.095	0.8	0.55	39	<10	50	0.6	<2	9.67	<0.5	25	1	110	4.65
331279		2.56	0.073	0.6	0.47	24	<10	50	0.5	<2	8.56	<0.5	25	<1	155	4.30
331280		2.63	0.060	0.6	0.41	22	<10	50	0.5	<2	9.34	<0.5	25	1	143	3.89
331281		3.97	0.058	0.6	0.47	32	<10	40	0.7	<2	7.45	<0.5	32	<1	169	4.28
331282		3.52	0.106	0.6	0.53	44	<10	50	0.8	<2	10.25	<0.5	30	2	142	4.27
331283		4.44	0.071	0.4	0.46	39	<10	50	0.6	<2	10.45	<0.5	24	<1	87	3.75
331284		3.80	0.140	0.9	0.48	101	<10	50	0.6	<2	10.70	<0.5	28	<1	137	5.57
331285		1.70	0.161	0.9	0.33	387	<10	30	<0.5	<2	14.3	<0.5	11	<1	51	4.73
331286		3.25	0.097	0.2	0.52	103	<10	30	0.7	<2	9.19	<0.5	18	<1	91	4.75
331287		4.75	0.097	0.4	0.76	40	<10	50	0.6	<2	7.91	<0.5	20	<1	118	5.07
331288		4.02	0.021	0.3	0.71	50	<10	60	0.7	<2	9.05	1.8	20	<1	104	3.97
331289		5.81	0.028	0.3	0.93	26	<10	110	0.8	<2	9.23	<0.5	20	1	142	3.98
331290		3.09	0.054	0.3	0.68	81	<10	80	0.7	<2	3.49	<0.5	18	1	186	3.35



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Page: 2 - B

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Project: bcg07-03

CERTIFICATE OF ANALYSIS RE07128723

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
331251		<10	1	0.20	20	0.26	1315	24	0.02	6	1460	20	3.95	7	3
331252		<10	<1	0.23	30	0.30	1720	21	0.02	9	2070	19	4.74	5	6
331253		<10	<1	0.29	30	0.32	1430	5	0.02	6	2350	21	3.65	3	4
331254		<10	<1	0.28	20	0.22	1550	4	0.02	14	3340	22	3.64	5	5
331255		<10	<1	0.24	20	0.49	1460	22	0.02	16	3710	27	4.10	3	6
331256		<10	<1	0.34	20	0.64	1720	6	0.01	8	2730	24	3.50	3	6
331257		<10	<1	0.33	20	0.22	1255	24	0.01	5	2200	17	4.47	3	5
331258		<10	<1	0.43	20	1.01	1960	2	0.01	3	2140	18	3.65	4	6
331259		<10	<1	0.36	20	0.54	1970	9	0.01	7	2350	24	4.13	4	6
331260		<10	<1	0.02	<10	0.01	46	<1	<0.01	2	30	<2	0.01	2	<1
331261		<10	<1	0.29	20	0.62	1770	13	0.01	7	2080	12	4.58	4	5
331262		<10	<1	0.35	10	0.45	1595	6	0.01	3	2120	13	3.90	<2	4
331263		<10	<1	0.31	10	0.18	1265	6	0.02	5	2130	16	4.21	<2	3
331264		<10	<1	0.36	10	0.29	1340	3	0.02	7	2180	11	2.41	3	4
331265		<10	1	0.27	10	0.49	1815	3	0.02	8	2310	15	3.02	<2	6
331266		<10	<1	0.33	10	0.52	2030	12	0.02	6	2890	14	4.30	4	6
331267		<10	<1	0.38	20	0.65	1730	5	0.02	8	2130	16	3.23	3	4
331268		<10	2	0.30	20	0.93	2100	17	0.02	8	1930	23	4.52	7	4
331269		<10	<1	0.44	20	0.56	1445	4	0.03	7	3750	13	2.51	3	8
331270		<10	<1	0.43	10	0.66	1520	5	0.02	15	3720	20	4.50	4	11
331271		<10	<1	0.43	20	0.58	1445	18	0.02	7	3620	15	2.29	4	8
331272		<10	<1	0.38	10	0.54	1390	4	0.03	18	4060	14	4.73	<2	10
331273		<10	<1	0.48	20	0.54	1520	6	0.02	11	3940	13	4.28	4	9
331274		<10	<1	0.48	20	0.72	1575	15	0.01	11	4020	25	5.40	<2	10
331275		<10	<1	0.39	20	1.06	1870	11	0.02	11	3850	22	6.16	3	9
331276		<10	3	0.20	20	1.16	1525	84	0.02	18	3410	40	8.19	14	7
331277		<10	<1	0.47	20	0.80	1600	52	0.01	12	4490	22	5.33	7	9
331278		<10	<1	0.40	20	0.63	1855	7	0.02	12	3850	12	4.57	3	10
331279		<10	<1	0.34	20	0.55	1680	9	0.01	11	4220	13	4.52	4	9
331280		<10	<1	0.28	20	0.53	1760	9	0.01	11	3960	9	4.06	3	9
331281		<10	<1	0.36	20	0.47	1530	12	0.01	14	3980	18	4.39	3	8
331282		<10	<1	0.34	20	0.65	1810	11	0.01	11	3190	23	3.98	2	7
331283		<10	<1	0.32	20	0.51	1800	7	0.02	10	3170	29	3.83	3	7
331284		<10	<1	0.32	10	0.23	1230	15	0.02	14	4580	41	6.64	6	9
331285		<10	<1	0.23	10	0.08	1340	6	0.02	7	2870	30	6.04	6	9
331286		<10	<1	0.35	20	0.58	1360	5	0.02	9	4410	33	4.93	4	9
331287		<10	1	0.35	20	1.05	1510	16	0.01	8	4250	19	4.44	3	10
331288		<10	<1	0.35	20	0.71	1530	3	0.02	10	4410	28	3.29	6	10
331289		<10	<1	0.36	20	1.00	1595	18	0.02	5	3920	25	2.25	4	12
331290		<10	<1	0.36	20	1.32	1260	3	0.01	4	2060	14	1.40	3	6



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Page: 2 - C

Total # Pages: 3 (A - C)

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CERTIFICATE OF ANALYSIS RE07128723

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
331251		<20	<0.01	<10	<10	35	<10	43
331252		<20	<0.01	<10	<10	50	<10	62
331253		<20	<0.01	<10	<10	37	<10	76
331254		<20	0.01	<10	<10	52	<10	50
331255		<20	<0.01	<10	<10	47	<10	109
331256		<20	0.01	<10	<10	48	<10	161
331257		<20	0.01	<10	<10	40	<10	74
331258		<20	0.01	<10	<10	62	<10	96
331259		<20	0.01	<10	<10	49	<10	328
331260		<20	<0.01	<10	<10	2	<10	12
331261		<20	0.01	<10	<10	40	<10	33
331262		<20	0.01	<10	<10	39	<10	26
331263		<20	<0.01	<10	<10	34	<10	17
331264		<20	0.01	<10	<10	44	<10	18
331265		<20	<0.01	<10	<10	40	<10	20
331266		<20	0.01	<10	<10	50	<10	12
331267		<20	0.01	<10	<10	45	<10	14
331268		<20	0.01	<10	<10	49	<10	16
331269		<20	0.03	<10	<10	95	<10	33
331270		<20	0.02	<10	<10	84	<10	27
331271		<20	0.03	<10	<10	95	<10	36
331272		<20	0.01	<10	<10	81	<10	18
331273		<20	0.02	<10	<10	89	<10	45
331274		<20	0.02	<10	<10	89	<10	36
331275		<20	0.01	10	<10	80	<10	33
331276		<20	<0.01	10	<10	53	<10	35
331277		<20	0.02	10	<10	101	<10	53
331278		<20	0.02	<10	<10	82	<10	36
331279		<20	0.01	<10	<10	70	<10	24
331280		<20	0.01	<10	<10	63	<10	24
331281		<20	0.01	10	<10	71	<10	129
331282		<20	0.01	<10	<10	52	<10	175
331283		<20	<0.01	<10	<10	49	<10	455
331284		<20	0.01	<10	<10	65	<10	199
331285		<20	<0.01	<10	<10	42	<10	72
331286		<20	0.01	<10	<10	68	<10	80
331287		<20	0.01	<10	<10	81	<10	64
331288		<20	0.01	10	<10	81	<10	841
331289		<20	0.01	<10	<10	106	<10	298
331290		<20	0.01	<10	<10	68	<10	30



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Page: 3 - A
Total # Pages: 3 (A - C)
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Account: EIABCG

Project: bcg07-03

CERTIFICATE OF ANALYSIS RE07128723

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
331291		3.09	0.070	0.2	0.77	128	<10	70	0.9	<2	3.98	<0.5	24	3	130	5.21
331292		5.71	0.073	0.3	0.37	77	<10	210	0.5	<2	1.68	<0.5	13	<1	180	2.74
331293		1.70	0.117	0.3	0.23	89	<10	30	0.5	<2	7.38	<0.5	19	1	120	6.41
331294		2.19	0.049	<0.2	0.39	53	<10	130	0.7	<2	5.51	<0.5	16	1	123	4.04



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Page: 3 - C
Total # Pages: 3 (A - C)
Finalized Date: 22-NOV-2007
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Project: bcg07-03

CERTIFICATE OF ANALYSIS RE07128723

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
331291		<20	0.01	<10	<10	94	<10	32
331292		<20	<0.01	<10	<10	37	<10	13
331293		<20	<0.01	<10	<10	71	<10	14
331294		<20	<0.01	<10	<10	74	<10	102



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CERTIFICATE RE07121404

Project: BCG07-01

P.O. No.:

This report is for 132 Drill Core samples submitted to our lab in Reno, NV, USA on 12-OCT-2007.

The following have access to data associated with this certificate:

ANDREW BROWN
RORY KUTLUOGLU

BRIAN FOWLER
FREEMAN SMITH

QUITY ENGINEERING GENERAL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim 'or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project.

To: EQUITY ENGINEERING LTD.
ATTN: EQUITY ENGINEERING GENERAL
700 - 700 WEST PENDER ST.
VANCOUVER BC V6C 1G8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A

Total # Pages: 5 (A - C)

Finalized Date: 19-DEC-2007

Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS RE07121404

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
196869		4.02	0.100	0.6	0.39	33	<10	30	1.0	<2	1.41	<0.5	15	7	222	4.01
196870		0.09	0.910	39.6	0.64	1390	20	60	<0.5	33	3.16	0.6	39	169	4350	1.98
196871		5.34	0.146	0.6	0.29	19	<10	30	0.6	<2	0.96	<0.5	7	4	737	2.86
196872		3.38	0.094	0.6	0.21	26	<10	50	<0.5	<2	1.03	<0.5	5	3	507	2.50
196873		1.30	0.181	2.2	0.53	158	<10	40	0.5	<2	6.07	0.6	24	4	130	6.15
196874		4.15	0.133	<0.2	0.61	156	<10	20	<0.5	2	2.31	0.6	34	9	127	7.72
196875		2.59	0.146	<0.2	0.41	222	<10	50	<0.5	2	0.39	0.6	7	<1	92	6.01
196876		2.79	0.117	<0.2	0.58	218	<10	30	0.7	<2	1.99	2.3	28	1	177	5.50
196877		2.65	0.207	1.5	0.27	156	<10	40	<0.5	2	0.02	<0.5	9	10	68	6.65
196878		3.67	0.124	0.9	0.95	133	<10	110	0.6	<2	1.04	1.3	32	<1	188	6.35
196879		2.31	0.109	1.5	0.76	109	<10	80	0.5	<2	1.56	1.8	28	1	135	5.06
196880		2.12	0.118	1.3	0.63	113	<10	100	<0.5	<2	1.64	1.6	24	<1	128	4.69
196881		3.71	0.130	1.7	0.64	83	<10	30	<0.5	<2	0.43	<0.5	26	2	146	6.30
196882		2.66	0.243	2.8	0.93	185	<10	40	0.7	<2	1.12	0.5	33	12	171	6.54
196883		4.46	0.138	0.4	0.72	116	<10	60	<0.5	2	6.70	0.7	27	7	149	5.09
196884		5.94	0.284	0.8	1.01	257	<10	70	0.5	<2	3.05	1.0	28	5	193	5.47
196885		4.15	0.199	1.5	0.48	194	<10	40	0.5	<2	2.65	<0.5	39	5	138	6.32
196886		2.10	0.171	1.1	0.65	256	<10	60	0.5	<2	2.95	1.0	35	4	169	5.86
196887		2.64	0.251	<0.2	1.25	254	<10	70	0.5	<2	5.18	<0.5	27	3	126	5.18
196888		4.35	0.090	<0.2	1.22	78	<10	80	0.7	<2	5.05	<0.5	23	6	87	4.59
196889		2.32	0.078	0.2	0.51	45	<10	30	<0.5	<2	4.94	<0.5	30	13	111	5.29
196890		2.55	0.072	0.2	0.47	52	<10	30	<0.5	<2	4.97	<0.5	32	11	106	5.09
196891		3.57	0.063	<0.2	0.82	38	<10	100	0.6	<2	4.81	<0.5	15	<1	123	2.83
196892		2.12	0.148	<0.2	1.08	90	<10	40	0.5	<2	7.40	0.6	23	<1	142	4.72
196893		4.38	0.097	<0.2	1.06	82	<10	40	0.8	<2	4.67	<0.5	30	1	126	5.27
196894		4.91	0.053	<0.2	0.72	43	<10	100	0.8	<2	5.09	<0.5	22	<1	137	4.18
196895		4.74	0.058	<0.2	0.63	39	<10	80	0.7	<2	4.69	<0.5	24	<1	107	4.65
196896		4.71	0.075	<0.2	0.91	60	<10	30	0.9	<2	6.23	<0.5	20	<1	96	5.12
196897		4.78	0.077	<0.2	0.53	64	<10	30	<0.5	<2	8.71	<0.5	16	<1	100	4.61
196898		5.19	0.108	0.3	0.25	112	<10	20	0.5	<2	11.50	0.6	8	<1	99	4.45
196899		4.40	0.165	<0.2	0.50	167	<10	100	0.6	<2	5.50	<0.5	12	<1	73	4.28
196900		0.12	0.012	<0.2	0.01	<2	<10	10	<0.5	<2	0.02	<0.5	1	<1	1	0.02
196901		1.98	0.099	<0.2	0.47	128	<10	70	0.5	<2	3.43	0.6	16	<1	102	4.50
196902		2.73	0.091	4.2	0.63	83	<10	10	0.9	2	3.31	0.9	28	<1	200	9.58
196903		3.43	0.106	1.4	0.57	76	<10	30	0.7	<2	3.97	<0.5	13	<1	156	4.91
196904		3.68	0.136	0.8	0.47	73	<10	20	0.6	<2	4.28	<0.5	14	<1	193	4.73
196905		2.62	0.275	1.9	0.66	118	<10	20	0.8	<2	4.25	0.7	12	<1	262	5.99
196906		3.50	0.140	0.7	0.63	110	<10	20	0.9	2	4.67	0.8	19	<1	184	5.51
196907		2.18	0.116	0.8	0.61	100	<10	20	0.8	<2	4.72	0.5	11	<1	181	4.08
196908		2.69	0.167	2.6	0.57	111	<10	20	0.7	<2	9.70	<0.5	15	<1	182	6.85



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Page: 2 - B

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Project: BCG07-01

CERTIFICATE OF ANALYSIS RE07121404

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
196869		<10	<1	0.26	10	0.06	345	6	0.02	26	1080	22	4.57	2	3
196870		<10	<1	0.10	<10	0.20	563	625	0.04	21	530	76	0.74	83	1
196871		<10	1	0.21	10	0.09	227	5	0.02	12	1110	26	3.21	<2	1
196872		<10	<1	0.17	10	0.08	264	2	0.02	8	880	38	2.82	<2	1
196873		<10	1	0.41	60	2.64	2690	157	0.02	13	2150	65	7.06	8	21
196874		<10	<1	0.47	100	0.99	1895	653	0.02	25	2580	91	6.45	7	19
196875		<10	1	0.51	240	0.13	274	725	0.02	5	2240	222	1.82	7	7
196876		<10	1	0.39	290	0.34	880	362	0.02	12	2310	181	6.22	5	8
196877		<10	<1	0.45	150	0.04	83	505	0.01	8	1530	120	2.39	9	17
196878		<10	<1	0.28	50	1.23	1695	33	0.02	13	2890	50	3.18	5	13
196879		<10	1	0.29	20	0.62	1040	13	0.02	20	2480	240	3.83	6	9
196880		<10	<1	0.21	20	0.61	992	16	0.02	17	2520	140	3.38	8	9
196881		<10	<1	0.22	20	0.46	183	27	0.01	16	2450	60	5.48	3	14
196882		<10	<1	0.37	40	0.77	898	19	0.02	20	2520	77	4.41	8	16
196883		<10	<1	0.17	40	1.93	2320	33	0.02	17	2160	39	5.45	<2	14
196884		<10	<1	0.25	50	1.44	1745	27	0.02	15	2470	49	3.70	4	13
196885		<10	<1	0.25	30	0.86	1915	26	0.01	24	2500	43	5.67	6	16
196886		<10	<1	0.31	30	1.17	2230	16	0.02	22	2600	38	5.55	5	15
196887		<10	<1	0.23	40	2.40	2210	61	0.02	14	2340	56	4.75	4	12
196888		<10	<1	0.32	30	2.07	1930	11	0.02	11	2350	52	4.58	<2	13
196889		<10	<1	0.26	20	1.22	1540	6	0.02	20	2400	24	6.05	2	19
196890		<10	<1	0.24	20	1.28	1600	5	0.02	17	2370	27	5.86	<2	18
196891		<10	<1	0.41	20	0.61	1155	5	0.02	4	2610	19	3.00	2	7
196892		<10	<1	0.27	30	1.39	1750	12	0.02	10	2530	39	4.90	6	10
196893		<10	<1	0.43	20	1.79	1480	7	0.02	14	3960	32	5.71	<2	14
196894		<10	<1	0.39	30	2.78	1435	5	0.02	10	2470	20	4.23	2	11
196895		<10	<1	0.39	20	1.57	1500	3	0.02	10	2260	15	5.03	4	11
196896		<10	<1	0.63	40	1.20	1615	3	0.02	10	2610	17	5.79	5	14
196897		<10	<1	0.38	110	1.56	1545	36	0.02	8	2150	27	5.57	2	10
196898		<10	<1	0.17	180	5.41	1530	22	0.02	3	1340	43	4.99	7	8
196899		<10	<1	0.34	30	3.17	1200	9	0.02	6	2070	32	4.63	6	8
196900		<10	<1	<0.01	<10	0.01	<5	<1	0.01	1	20	<2	0.01	<2	<1
196901		<10	1	0.31	20	1.19	847	18	0.02	7	2570	30	4.34	6	7
196902		<10	<1	0.39	20	0.60	1055	63	0.02	15	3280	56	9.77	3	9
196903		<10	<1	0.39	20	0.70	1120	15	0.02	5	2910	28	5.34	3	9
196904		<10	<1	0.33	30	1.20	1490	10	0.02	4	2810	27	5.18	3	10
196905		<10	1	0.42	30	0.85	1155	19	0.02	5	2890	48	5.07	5	10
196906		<10	<1	0.39	80	1.49	1765	19	0.02	8	3010	65	5.27	4	13
196907		<10	<1	0.41	40	1.55	1515	10	0.02	4	2740	40	4.45	7	11
196908		<10	1	0.40	50	1.85	2110	32	0.03	9	2200	53	8.13	8	13



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Page: 2 - C

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Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS RE07121404

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
196869		<20	<0.01	<10	<10	17	<10	92
196870		<20	0.03	<10	<10	14	10	75
196871		<20	<0.01	<10	<10	10	<10	140
196872		<20	<0.01	<10	<10	7	<10	152
196873		<20	0.01	<10	<10	124	<10	191
196874		20	0.01	<10	<10	149	<10	174
196875		30	<0.01	<10	<10	88	<10	142
196876		30	<0.01	<10	<10	80	10	403
196877		<20	<0.01	<10	<10	74	<10	126
196878		<20	<0.01	<10	<10	83	<10	188
196879		<20	<0.01	<10	<10	69	<10	120
196880		<20	<0.01	<10	<10	58	<10	127
196881		<20	<0.01	<10	<10	61	<10	48
196882		<20	<0.01	<10	<10	82	<10	92
196883		<20	<0.01	<10	<10	70	<10	87
196884		<20	0.01	<10	<10	94	<10	113
196885		<20	<0.01	<10	<10	71	<10	55
196886		<20	<0.01	<10	<10	88	<10	78
196887		<20	<0.01	<10	<10	97	<10	78
196888		<20	0.01	<10	<10	96	<10	99
196889		<20	0.01	<10	<10	68	<10	22
196890		<20	<0.01	<10	<10	63	<10	30
196891		<20	0.01	<10	<10	65	<10	13
196892		<20	<0.01	<10	<10	91	<10	59
196893		<20	0.01	<10	<10	96	<10	28
196894		<20	0.01	<10	<10	57	<10	32
196895		<20	0.01	<10	<10	59	<10	16
196896		<20	0.01	10	10	94	<10	20
196897		<20	0.01	<10	<10	100	<10	26
196898		<20	<0.01	<10	<10	50	<10	161
196899		<20	0.01	<10	<10	54	<10	61
196900		<20	<0.01	<10	<10	<1	<10	4
196901		<20	<0.01	<10	<10	49	<10	47
196902		<20	0.01	<10	<10	63	<10	46
196903		<20	<0.01	<10	<10	53	<10	16
196904		<20	<0.01	<10	<10	54	<10	22
196905		<20	0.01	<10	<10	69	<10	106
196906		<20	<0.01	<10	<10	77	<10	107
196907		<20	<0.01	<10	<10	67	<10	54
196908		<20	0.01	<10	<10	111	<10	66



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
196909		2.11	0.085	2.0	0.60	51	<10	20	0.7	<2	3.79	<0.5	31	<1	178	6.95
196910		1.98	0.101	2.4	0.76	59	<10	30	0.9	<2	4.27	<0.5	34	1	184	8.02
196911		4.98	0.165	1.5	0.94	75	10	80	0.9	<2	10.00	<0.5	17	<1	118	3.75
196912		2.17	0.121	1.8	0.62	159	<10	40	0.7	<2	3.47	<0.5	12	<1	124	4.49
196913		4.84	0.342	1.9	0.82	197	10	40	0.9	<2	5.46	<0.5	25	2	169	5.99
196914		5.13	0.192	1.7	0.90	164	10	70	0.9	<2	11.05	<0.5	31	3	170	7.25
196915		4.25	0.114	1.0	0.74	83	10	30	0.8	<2	5.40	<0.5	32	<1	166	6.05
196916		4.65	0.075	1.2	0.50	89	<10	40	0.6	2	4.40	0.6	34	1	186	8.02
196917		4.52	0.138	1.1	0.53	107	<10	30	0.7	<2	5.33	<0.5	36	2	190	6.30
196918		4.94	0.079	1.3	1.10	52	10	50	1.0	<2	3.92	<0.5	42	4	341	7.53
196919		2.43	0.035	0.5	0.45	30	<10	40	0.5	<2	5.43	<0.5	16	1	141	4.02
196920		2.07	0.039	0.5	0.41	35	<10	40	0.5	<2	5.21	<0.5	16	1	137	4.17
196921		4.26	0.044	0.7	0.50	41	<10	40	0.6	<2	5.16	<0.5	18	1	144	5.03
196922		3.95	0.042	0.5	0.54	38	<10	30	0.7	<2	3.00	<0.5	16	<1	125	5.33
196923		1.74	0.042	0.7	0.46	47	<10	30	0.5	<2	4.46	<0.5	13	<1	103	5.01
196924		4.07	0.061	1.1	0.52	44	<10	30	0.6	<2	2.66	<0.5	30	1	141	6.30
196925		2.79	0.135	1.5	0.36	124	<10	60	<0.5	<2	3.72	0.5	16	1	129	6.16
196926		5.66	0.097	1.5	0.35	54	<10	40	<0.5	<2	6.81	<0.5	20	1	177	6.07
196927		6.62	0.057	0.8	0.50	53	<10	50	0.5	<2	3.97	<0.5	15	2	289	4.97
196928		5.34	0.052	1.1	0.50	35	<10	30	0.5	3	3.02	<0.5	37	1	193	7.88
196929		4.79	0.062	1.1	0.31	35	<10	30	<0.5	2	7.89	<0.5	30	2	138	6.30
196930	Empty Bag															
196931		2.50	0.101	1.0	0.33	43	<10	30	<0.5	<2	8.76	<0.5	28	2	140	5.18
196932		5.12	0.096	1.3	0.62	46	<10	30	0.7	<2	4.88	<0.5	39	2	172	7.54
196933		6.03	0.053	1.0	0.64	41	<10	20	0.6	2	2.95	<0.5	38	2	204	9.15
196934		5.45	0.022	0.6	0.60	32	<10	30	0.6	<2	3.18	<0.5	39	1	147	5.79
196935		5.89	0.029	0.9	0.51	24	<10	30	0.5	<2	5.23	<0.5	19	1	132	4.95
196936		4.76	0.046	0.5	0.55	28	<10	30	0.5	<2	8.07	<0.5	19	<1	162	4.99
196937		4.95	0.028	0.4	0.53	45	<10	30	0.6	<2	5.20	<0.5	28	<1	178	5.24
196938		5.93	0.041	0.6	0.47	26	<10	50	0.5	<2	6.28	<0.5	25	<1	208	5.53
196939		2.39	0.035	0.6	0.51	31	<10	40	0.6	<2	4.85	<0.5	28	<1	210	5.75
196940		2.80	0.036	0.4	0.54	32	<10	40	0.6	<2	4.90	<0.5	28	<1	188	5.82
196941		4.75	0.092	0.9	0.55	81	<10	30	0.6	<2	4.60	<0.5	24	1	214	7.08
196942		5.84	0.074	0.6	0.46	67	<10	40	0.5	<2	3.05	<0.5	14	<1	151	4.78
196943		4.54	0.071	0.7	0.65	54	<10	40	0.6	<2	3.47	<0.5	16	<1	241	5.58
196944		3.00	0.140	1.3	0.60	112	<10	30	0.6	<2	5.02	<0.5	14	<1	302	6.62
196945		4.48	0.059	0.7	0.57	47	<10	40	0.6	2	5.69	<0.5	42	1	152	7.70
196946		4.64	0.067	0.6	0.42	41	<10	40	0.5	<2	7.24	0.6	33	<1	197	6.35
196947		4.38	0.028	0.7	0.57	29	<10	30	0.6	<2	5.78	<0.5	37	2	110	6.88
196948		2.05	0.054	0.6	0.42	54	<10	30	0.6	<2	15.4	<0.5	23	<1	201	4.97



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Page: 3 - C

Total # Pages: 5 (A - C)

Finalized Date: 19-DEC-2007

Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS RE07121404

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
196909		<20	0.01	<10	<10	93	<10	31
196910		<20	0.01	<10	<10	115	<10	48
196911		<20	0.01	<10	<10	98	<10	58
196912		<20	0.01	<10	<10	60	<10	54
196913		<20	0.01	<10	<10	99	<10	37
196914		20	0.01	<10	<10	139	10	52
196915		<20	0.01	<10	<10	79	<10	24
196916		<20	<0.01	<10	<10	77	<10	74
196917		<20	0.01	<10	<10	90	<10	52
196918		<20	0.01	<10	<10	163	<10	26
196919		<20	0.01	<10	<10	61	<10	17
196920		<20	0.01	<10	<10	60	<10	18
196921		<20	0.01	<10	<10	66	<10	23
196922		<20	0.01	<10	10	59	<10	56
196923		<20	0.01	<10	<10	55	<10	44
196924		<20	0.01	<10	<10	56	<10	36
196925		<20	<0.01	<10	<10	64	<10	92
196926		<20	<0.01	<10	10	70	<10	35
196927		<20	0.01	<10	<10	61	<10	29
196928		<20	<0.01	<10	<10	77	<10	39
196929		<20	<0.01	<10	<10	75	<10	73
196930								
196931		<20	<0.01	<10	<10	74	<10	58
196932		<20	0.01	<10	<10	108	<10	51
196933		<20	0.01	<10	<10	114	<10	35
196934		<20	0.01	<10	<10	68	<10	26
196935		<20	<0.01	<10	<10	41	10	24
196936		<20	<0.01	<10	<10	44	<10	15
196937		<20	<0.01	<10	<10	45	<10	16
196938		<20	<0.01	<10	<10	40	<10	21
196939		<20	0.01	<10	<10	52	<10	30
196940		<20	<0.01	<10	<10	53	<10	25
196941		20	<0.01	<10	<10	61	<10	36
196942		30	0.01	<10	<10	63	<10	35
196943		20	0.01	<10	<10	75	<10	63
196944		<20	0.01	<10	<10	56	<10	41
196945		20	0.01	<10	<10	64	<10	18
196946		<20	0.01	<10	<10	48	<10	82
196947		<20	0.01	<10	<10	64	<10	12
196948		<20	<0.01	<10	<10	69	<10	20



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Page: 4 - A

Total # Pages: 5 (A - C)

Finalized Date: 19-DEC-2007

Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS RE07121404

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
196949		2.01	0.032	0.8	0.30	45	<10	20	<0.5	<2	7.04	<0.5	27	<1	237	6.50
196950		2.02	0.026	0.8	0.29	31	<10	20	<0.5	<2	7.49	<0.5	29	<1	254	6.78
196951		4.55	0.054	10.1	0.61	41	<10	20	0.7	<2	4.11	<0.5	30	1	229	7.21
196952		3.25	0.033	0.5	0.30	30	<10	20	<0.5	<2	3.51	<0.5	27	<1	135	5.56
196953		1.13	0.326	1.8	0.07	63	<10	70	<0.5	<2	>25.0	2.6	3	<1	42	1.50
196954		4.68	0.041	0.6	0.44	35	<10	20	0.6	2	2.78	<0.5	33	1	185	6.96
196955		4.75	0.045	0.5	0.41	24	<10	30	0.7	<2	1.76	<0.5	27	<1	228	7.15
196956		4.95	0.024	<0.2	0.41	30	<10	30	0.6	<2	2.61	<0.5	34	1	146	5.71
196957		4.56	0.053	0.5	0.37	68	<10	20	<0.5	<2	2.95	<0.5	35	<1	188	6.18
196958		1.82	0.065	1.4	0.50	78	10	20	0.5	<2	2.60	0.5	28	1	77	4.34
196959		2.37	0.136	0.9	0.23	77	<10	20	<0.5	<2	7.51	1.2	17	1	127	5.62
196960		0.13	<0.005	<0.2	0.01	<2	<10	40	<0.5	<2	0.02	<0.5	<1	<1	1	0.02
196961		6.96	0.039	0.9	0.41	35	<10	20	0.6	2	1.93	<0.5	29	1	208	8.91
196962		6.19	0.015	0.6	0.35	34	<10	20	<0.5	2	2.74	<0.5	25	1	67	5.55
196963		5.02	0.061	0.6	0.24	35	<10	20	<0.5	<2	8.11	0.5	17	<1	76	4.40
196964		5.02	0.048	0.7	0.37	33	<10	10	0.5	2	4.35	<0.5	25	<1	129	5.40
196965		4.24	0.037	0.8	0.32	41	<10	20	<0.5	<2	3.82	<0.5	24	1	164	5.82
196966		4.28	0.067	1.2	0.35	59	<10	10	0.5	4	3.38	<0.5	31	<1	214	7.25
196967		3.50	0.099	1.0	0.38	48	<10	20	0.5	3	4.35	<0.5	22	1	147	5.04
196968		1.89	0.024	0.5	0.30	31	<10	20	<0.5	3	5.66	<0.5	26	<1	138	5.67
196969		2.39	0.091	0.6	0.43	37	<10	20	0.5	4	5.63	0.8	23	1	123	6.49
196970		2.33	0.080	0.6	0.34	28	<10	20	<0.5	4	5.83	0.8	21	<1	113	6.14
196971		3.51	0.020	0.2	0.35	22	<10	50	<0.5	<2	3.33	<0.5	15	1	170	3.86
196972		6.26	0.013	<0.2	0.38	21	<10	30	<0.5	<2	3.60	<0.5	19	1	103	5.04
196973		3.90	0.029	0.4	0.62	26	<10	20	0.7	7	3.53	<0.5	30	1	147	6.68
196974		3.73	0.071	0.5	0.37	51	<10	880	0.9	<2	0.32	<0.5	5	1	72	2.95
196975		1.85	0.224	2.1	0.42	57	<10	300	0.6	<2	0.15	<0.5	9	2	89	5.28
196976		2.02	0.113	0.9	0.49	53	<10	760	0.8	<2	0.18	<0.5	24	<1	147	4.73
196977		1.84	0.164	0.6	0.61	49	<10	1120	0.5	<2	0.04	<0.5	1	1	80	2.78
196978		4.98	0.078	0.8	0.77	37	<10	170	0.8	<2	0.21	<0.5	13	1	114	3.91
196979		1.93	0.113	1.3	0.89	62	<10	20	1.0	<2	2.21	1.3	38	<1	342	6.41
196980		1.92	0.115	1.4	1.00	53	<10	20	1.1	<2	2.02	1.3	41	1	320	7.12
196981		5.63	0.067	1.1	0.44	33	<10	30	0.9	<2	4.14	0.5	39	1	159	5.64
196982		6.01	0.056	1.0	0.43	50	<10	30	0.7	<2	5.34	<0.5	37	1	120	4.97
196983		3.71	0.101	1.4	0.52	76	<10	20	0.8	<2	3.61	0.7	34	<1	188	4.71
196984		3.16	0.110	1.1	1.45	75	<10	20	1.4	<2	1.96	2.5	41	1	577	4.52
196985		2.47	0.034	0.7	0.39	22	<10	40	0.5	<2	5.12	0.5	30	<1	134	3.54
196986		2.54	0.034	1.0	1.27	27	<10	30	1.3	<2	3.05	1.1	31	1	281	3.40
196987		4.03	0.125	1.4	0.51	90	<10	20	0.7	<2	3.43	0.9	27	<1	155	3.93
196988		4.29	0.211	3.6	0.54	109	<10	20	0.7	<2	4.15	1.0	26	1	211	4.23



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Page: 4 - B

Total # Pages: 5 (A - C)

Finalized Date: 19-DEC-2007

Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS RE07121404

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
196949		<10	<1	0.23	30	0.16	1030	21	0.01	8	3500	19	7.45	6	11
196950		<10	<1	0.23	30	0.17	1110	19	0.02	11	3580	21	7.76	8	11
196951		<10	<1	0.43	40	0.55	810	16	0.02	12	2940	26	7.62	5	9
196952		<10	<1	0.22	20	0.25	661	11	0.01	10	2680	44	6.11	3	6
196953		<10	1	0.05	20	1.52	3120	7	0.02	<1	410	1180	1.6	6	4
196954		<10	<1	0.32	30	0.67	750	25	0.01	13	3970	50	7.73	7	9
196955		<10	<1	0.31	40	0.38	558	29	0.01	13	2480	33	7.82	2	7
196956		<10	<1	0.33	20	0.87	1080	37	0.01	11	2810	23	6.29	4	11
196957		<10	<1	0.29	170	0.96	697	556	0.02	13	2550	91	6.99	14	7
196958		<10	<1	0.39	140	0.87	380	2090	0.01	13	3010	136	4.96	10	5
196959		<10	1	0.18	70	3.06	1310	205	0.01	5	2030	180	6.56	11	5
196960		<10	<1	<0.01	<10	0.01	<5	2	0.01	<1	10	2	<0.01	<2	<1
196961		<10	<1	0.32	30	0.50	604	39	0.01	13	3210	33	9.65	8	7
196962		<10	<1	0.27	80	0.99	508	1065	0.01	10	2460	66	6.26	8	6
196963		<10	<1	0.18	40	3.39	1430	102	0.01	5	2620	30	4.93	2	6
196964		<10	<1	0.28	30	1.74	1050	28	0.01	11	2420	33	6.10	4	9
196965		<10	<1	0.26	30	1.26	839	42	0.01	12	2970	27	6.43	11	8
196966		<10	<1	0.26	20	0.11	340	132	0.01	16	2550	48	8.19	23	5
196967		<10	<1	0.29	50	0.15	521	158	0.01	9	3030	50	5.70	15	6
196968		<10	<1	0.23	50	0.19	628	151	0.02	11	4440	63	6.33	6	6
196969		<10	<1	0.31	20	0.20	643	56	0.02	13	2770	47	7.44	4	6
196970		<10	<1	0.24	20	0.16	634	54	0.02	10	2630	48	7.12	2	5
196971		<10	<1	0.27	80	0.19	462	170	0.01	5	3140	96	4.46	4	5
196972		<10	<1	0.29	50	0.29	679	188	0.02	7	3200	35	5.81	3	6
196973		<10	<1	0.40	30	0.28	523	27	0.02	14	4010	25	7.39	2	8
196974		<10	<1	0.34	120	0.06	368	38	0.01	3	840	21	0.43	3	4
196975		<10	<1	0.57	140	0.05	392	33	0.02	6	3260	46	0.77	6	13
196976		<10	<1	0.31	120	0.04	858	42	<0.01	7	3240	24	0.38	6	9
196977		<10	<1	0.31	130	0.03	34	110	0.01	1	1790	22	0.20	8	7
196978		<10	<1	0.36	50	0.04	108	22	0.01	5	3500	14	1.29	3	7
196979		<10	<1	0.26	70	0.60	1870	35	0.01	19	3990	25	5.88	2	10
196980		<10	<1	0.29	80	0.53	1890	40	0.01	21	3860	29	6.24	4	10
196981		<10	<1	0.26	40	1.59	2730	20	0.02	15	3790	25	5.14	4	11
196982		<10	<1	0.31	30	1.53	2820	17	0.02	12	4120	21	4.88	5	11
196983		<10	<1	0.29	60	1.22	1915	20	0.02	11	4260	21	4.92	3	11
196984		<10	<1	0.43	170	0.51	1685	18	0.02	19	4310	23	4.33	3	10
196985		<10	<1	0.31	30	0.58	1875	11	0.02	7	3370	13	3.53	4	7
196986		<10	<1	0.44	100	0.43	1150	10	0.02	16	3590	15	3.63	2	9
196987		<10	<1	0.31	70	1.59	1845	76	0.02	9	3110	20	4.33	2	11
196988		<10	<1	0.40	70	2.11	1955	171	0.03	8	3140	42	4.92	12	9



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Page: 4 - C

Total # Pages: 5 (A - C)

Finalized Date: 19-DEC-2007

Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS RE07121404

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
196949		<20	<0.01	<10	<10	36	<10	21
196950		<20	<0.01	<10	<10	37	<10	18
196951		<20	<0.01	<10	<10	54	40	24
196952		<20	<0.01	<10	<10	29	<10	21
196953		<20	<0.01	<10	<10	28	<10	560
196954		<20	<0.01	<10	<10	54	<10	28
196955		<20	<0.01	<10	<10	45	<10	12
196956		<20	<0.01	<10	<10	42	<10	14
196957		<20	0.01	<10	20	60	10	31
196958		<20	<0.01	<10	30	68	<10	47
196959		<20	<0.01	<10	<10	37	<10	219
196960		<20	<0.01	<10	<10	<1	<10	3
196961		<20	<0.01	<10	<10	54	<10	10
196962		<20	<0.01	<10	10	62	<10	31
196963		<20	<0.01	<10	<10	38	<10	66
196964		<20	<0.01	<10	<10	41	<10	26
196965		<20	<0.01	<10	<10	36	<10	18
196966		<20	<0.01	<10	<10	27	<10	21
196967		<20	<0.01	<10	10	38	<10	80
196968		<20	<0.01	<10	<10	41	<10	16
196969		<20	<0.01	<10	<10	42	<10	126
196970		<20	<0.01	<10	<10	34	<10	119
196971		30	<0.01	<10	20	52	<10	31
196972		20	<0.01	<10	<10	52	<10	33
196973		<20	<0.01	<10	<10	53	<10	12
196974		<20	<0.01	<10	<10	34	<10	49
196975		<20	0.01	<10	<10	62	<10	57
196976		<20	<0.01	<10	<10	47	<10	87
196977		<20	<0.01	<10	<10	45	<10	8
196978		<20	<0.01	<10	<10	62	<10	46
196979		<20	<0.01	<10	<10	56	<10	116
196980		<20	<0.01	<10	<10	61	<10	142
196981		<20	0.01	<10	<10	64	<10	88
196982		<20	<0.01	<10	<10	61	<10	41
196983		<20	<0.01	<10	<10	68	<10	45
196984		<20	0.01	<10	<10	81	<10	73
196985		<20	<0.01	<10	<10	50	<10	39
196986		<20	<0.01	<10	<10	65	<10	40
196987		<20	<0.01	<10	<10	81	<10	37
196988		<20	<0.01	<10	<10	99	10	88



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Page: 5 - A
Total # Pages: 5 (A - C)
Finalized Date: 19-DEC-2007
Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS RE07121404

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
196989		4.90	0.211	2.4	0.51	169	<10	30	0.7	<2	4.39	0.6	23	<1	310	5.07
196990		0.08	0.959	40.8	0.72	1350	20	70	<0.5	34	3.02	1.2	39	177	4360	2.05
196991		2.47	0.157	1.7	0.72	115	<10	20	0.9	<2	3.15	0.7	32	1	221	5.22
196992		3.98	0.451	5.8	0.45	119	<10	20	0.6	<2	3.14	0.7	26	<1	190	3.80
196993		5.88	1.250	30.1	0.48	258	<10	40	0.6	<2	5.21	1.4	24	1	231	3.94
196994		4.54	0.144	0.4	0.25	148	<10	20	0.6	<2	2.99	0.6	24	<1	148	2.26
196995		4.99	0.226	2.3	0.44	126	<10	50	0.6	<2	4.57	0.5	13	1	89	3.39
196996		4.91	0.718	2.0	0.56	107	<10	50	0.8	<2	7.26	<0.5	27	1	177	3.85
196997		3.30	0.410	2.4	0.54	110	<10	40	0.6	<2	6.42	<0.5	19	<1	243	3.34
196998		3.39	0.941	6.3	0.38	171	<10	90	0.5	<2	8.39	<0.5	22	<1	164	3.99
196999		1.93	0.137	1.4	0.63	44	<10	60	0.7	<2	5.37	<0.5	18	1	104	2.25
197000		2.01	0.150	1.5	0.54	37	<10	80	0.6	<2	5.47	0.5	18	<1	111	2.20



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Page: 5 - B
Total # Pages: 5 (A - C)
Finalized Date: 19-DEC-2007
Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS RE07121404

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
196989		<10	<1	0.38	240	1.76	2130	91	0.03	5	4210	43	6.20	20	13	2880
196990		<10	<1	0.12	10	0.20	585	621	0.05	20	570	67	0.77	87	1	144
196991		<10	<1	0.48	40	1.09	1815	18	0.02	11	4150	25	5.10	3	12	173
196992		<10	<1	0.30	40	1.42	2090	76	0.02	8	2760	39	3.96	11	8	140
196993		<10	<1	0.34	30	2.18	2080	174	0.02	9	2610	59	4.60	34	9	3970
196994		<10	<1	0.36	10	0.51	939	5	<0.01	11	1890	14	2.20	3	5	319
196995		<10	<1	0.36	20	1.23	1590	10	0.02	6	2260	15	3.84	4	7	575
196996		<10	<1	0.45	20	1.05	1950	9	0.03	7	3650	20	4.13	4	10	789
196997		<10	<1	0.42	20	0.66	1750	6	0.02	6	2300	19	3.82	3	6	517
196998		<10	<1	0.30	20	0.34	1745	9	0.03	10	2380	23	5.11	5	5	385
196999		<10	<1	0.47	20	0.39	1390	5	0.02	7	1460	15	2.31	3	3	228
197000		<10	<1	0.33	20	0.34	1310	8	0.02	10	1440	18	2.36	4	3	236



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Finalized Date: 19-DEC-2007
Account: EIABCG

Project: BCG07-01

CERTIFICATE OF ANALYSIS RE07121404

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
196989		20	0.01	<10	<10	106	<10	80
196990		<20	0.03	<10	<10	16	10	74
196991		<20	0.01	<10	<10	85	<10	66
196992		<20	<0.01	<10	<10	70	<10	99
196993		30	<0.01	<10	<10	125	<10	220
196994		<20	0.01	<10	<10	50	<10	100
196995		<20	<0.01	<10	<10	50	<10	130
196996		<20	0.01	<10	<10	76	<10	79
196997		<20	<0.01	<10	<10	47	<10	52
196998		<20	<0.01	<10	<10	58	<10	49
196999		<20	0.01	<10	<10	41	<10	33
197000		<20	<0.01	<10	<10	35	<10	36

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Page: 1

Finalized Date: 7-NOV-2007

This copy reported on 9-NOV-2007

Account: EIABCG

CERTIFICATE VA07117140

Project: Voigtberg

P.O. No.: BCG07-01

This report is for 1 Drill Core sample submitted to our lab in Vancouver, BC, Canada on
11-OCT-2007.

The following have access to data associated with this certificate:

ANDREW BROWN
RORY KUTLUOGLU

BRIAN FOWLER
FREEMAN SMITH

QUITY ENGINEERING GENERA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A
Total # Pages: 2 (A - C)
Finalized Date: 7-NOV-2007
Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07117140

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
202901		1.04	20.7	19.35	23.4	1.05	158	<10	90	0.7	<2	7.01	<0.5	17	2	188

Comments: **CORRECTED COPY for PO #**



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Total # Pages: 2 (A - C)
Finalized Date: 7-NOV-2007
Account: EIABCG

Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07117140

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
202901		4.38	<10	<1	0.43	20	0.83	1460	4	0.02	6	3020	36	3.45	3	9

Comments: **CORRECTED COPY for PO #**



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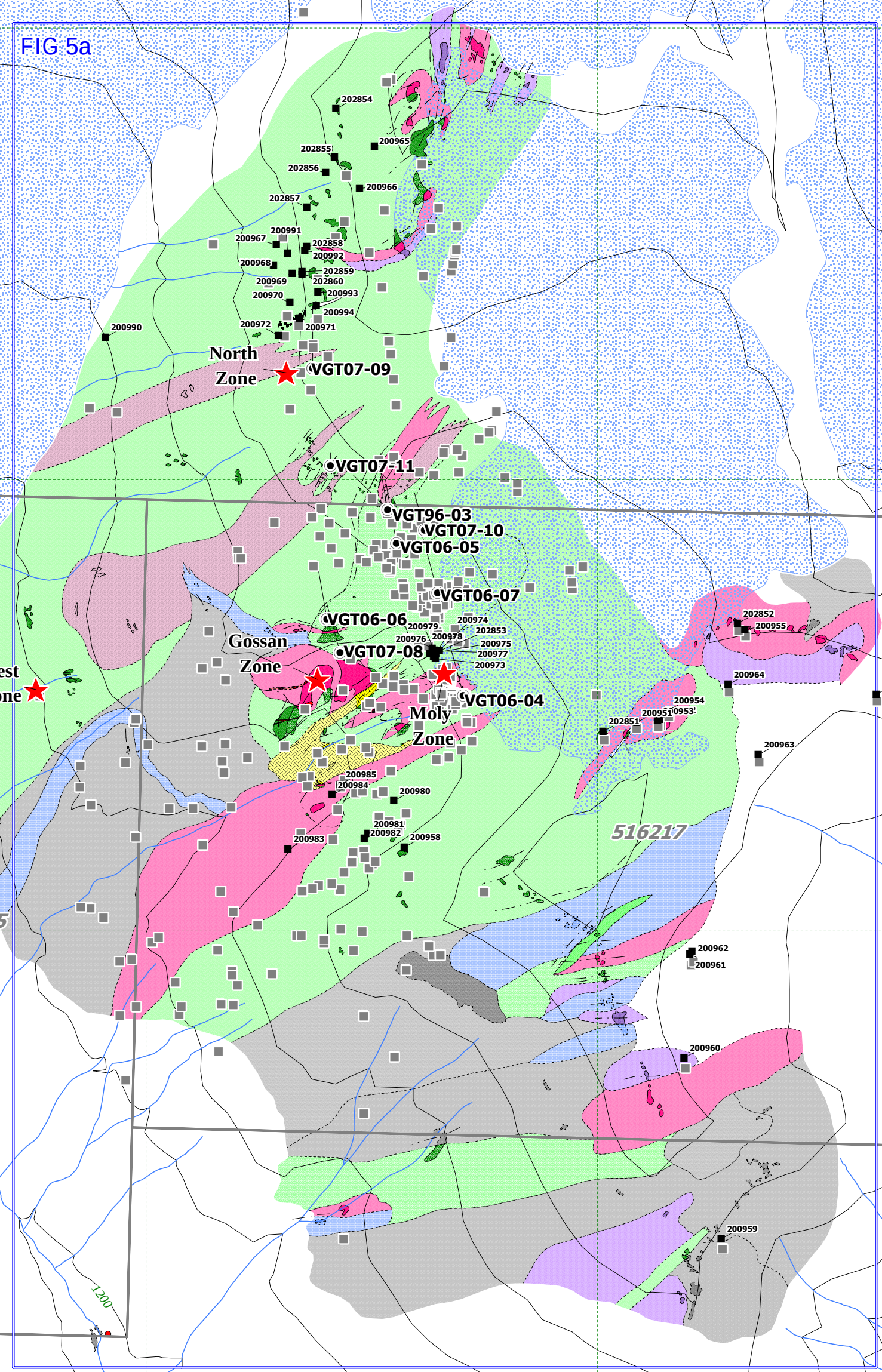
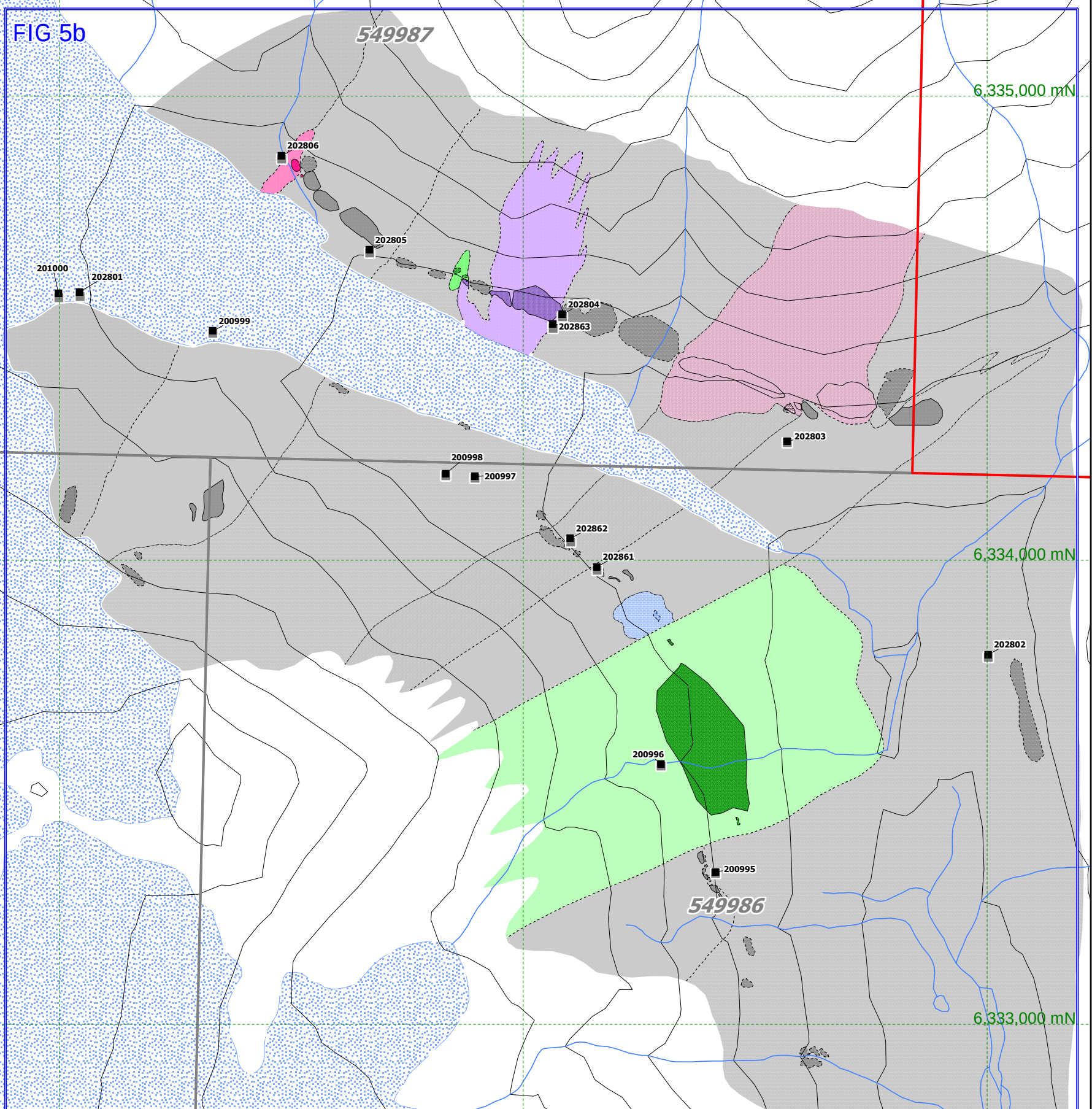
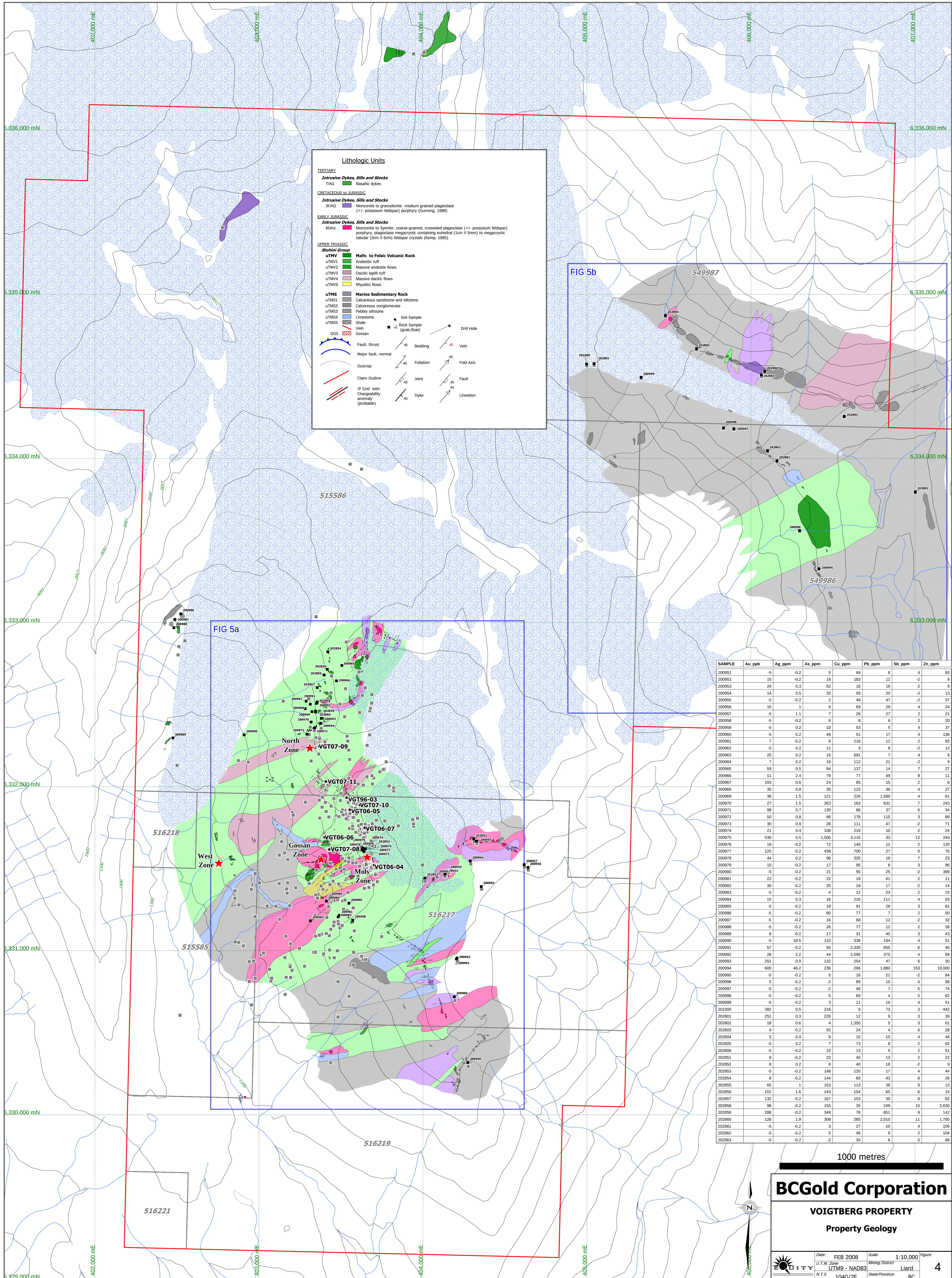
Project: Voigtberg

CERTIFICATE OF ANALYSIS VA07117140

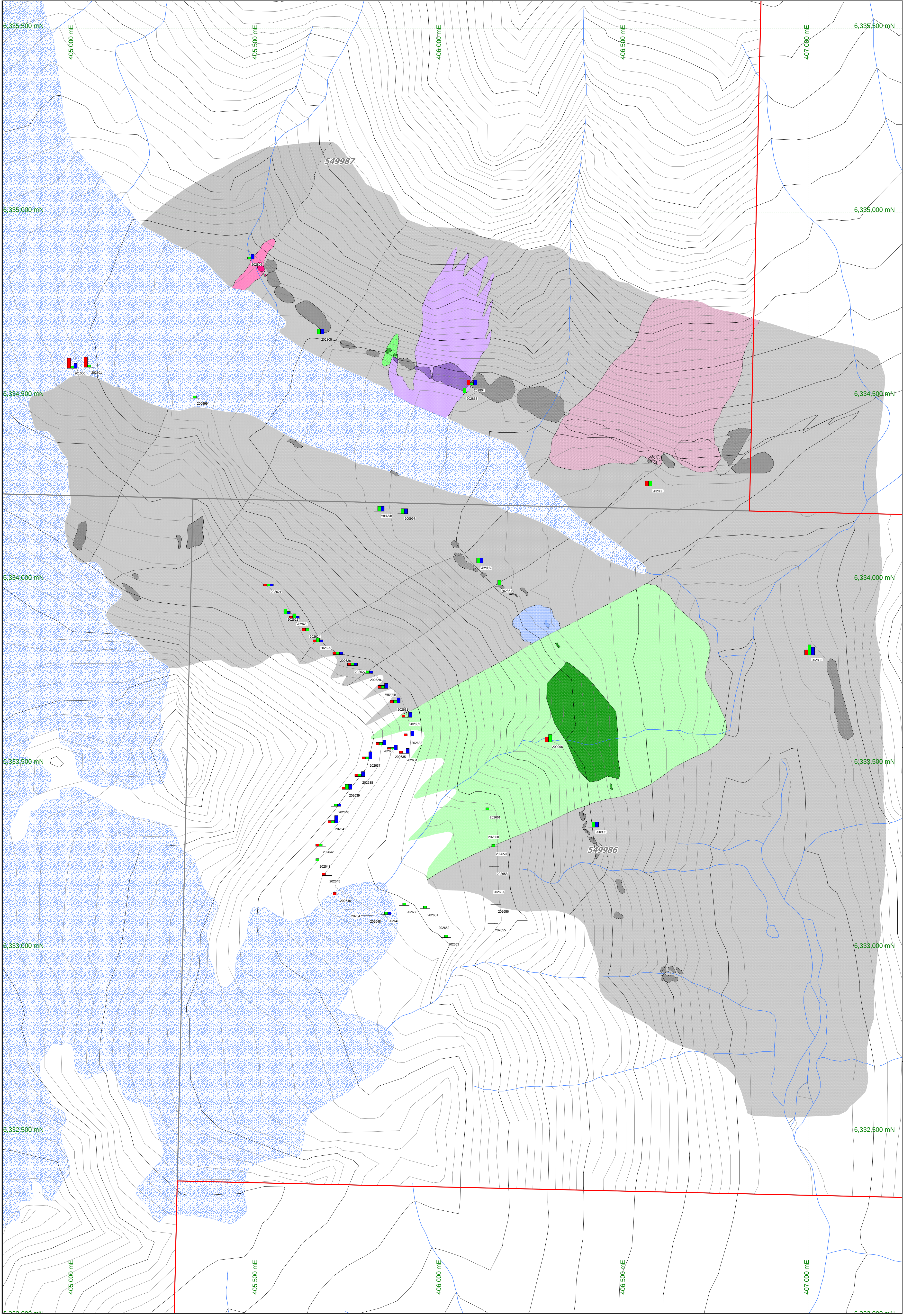
Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR		1	20	0.01	10	10	1	10	2
202901		644	<20	0.02	<10	<10	97	<10	168

Comments: **CORRECTED COPY for PO #**

Appendix L: Maps and Sections



SAMPLE	Au_ppb	Ag_ppm	As_ppm	Cu_ppm	Pb_ppm	Sb_ppm	Zn_ppm	
200951	-5	-0.2		5	69	8	4	83
200952	15	-0.2	19	183	12	-2	8	8
200953	24	0.3	62	16	16	-2	9	9
200954	14	0.5	32	93	20	-2	13	57
200955	-5	-0.2	2	49	47	-2	24	24
200956	10	1	9	69	29	4	21	21
200957	-5	1.1	7	26	27	2	20	37
200958	-5	-0.2	6	8	6	2	136	83
200959	-5	0.2	10	53	5	4	12	12
200960	-5	0.2	49	51	17	4	2	8
200961	7	-0.2	6	216	12	2	83	12
200962	-5	0.2	11	3	8	-2	12	8
200963	25	0.2	16	691	7	4	8	9
200964	7	0.2	16	112	21	-2	7	27
200965	59	0.5	94	137	14	7	11	11
200966	11	2.4	79	77	49	8	8	27
200967	193	0.6	24	85	15	2	8	27
200968	35	0.8	30	123	36	4	61	243
200969	36	1.5	121	226	1,560	7	34	89
200970	27	1.5	363	163	631	7	24	24
200971	98	0.7	135	66	37	6	89	24
200972	50	0.8	86	178	115	3	89	24
200973	30	0.9	28	111	47	-2	2	24
200974	21	0.4	108	219	10	2	243	120
200975	530	0.5	1,500	3,110	33	12	2	120
200976	19	-0.2	72	146	12	2	6	74
200977	125	-0.2	436	700	27	6	23	96
200978	44	0.2	96	320	18	7	26	62
200979	10	-0.2	17	95	8	3	93	39
200980	-5	-0.2	21	55	25	-2	399	11
200981	22	-0.2	22	19	41	2	14	23
200982	30	-0.2	25	18	17	-2	14	63
200983	-5	-0.2	4	12	23	2	23	63
200984	15	0.3	16	216	111	4	51	61
200985	-5	-0.2	18	91	28	3	50	32
200986	-5	-0.2	80	77	7	2	58	43
200987	-5	-0.2	16	68	12	-2	58	43
200988	-5	-0.2	26	77	12	2	58	43
200989	8	-0.2	17	31	45	3	51	40
200990	-5	18.5	133	338	194	4	59	30
200991	57	-0.2	50	2,330	655	6	40	59
200992	28	2.2	44	2,590	375	4	84	30
200993	251	0.9	132	254	47	6	15	62
200994	600	46.2	236	266	1,880	153	19,000	84
200995	-5	-0.2	5	18	21	-2	98	74
200996	-5	-0.2	-2	89	10	4	62	51
200997	-5	-0.2	-2	46	7	5	442	39
200998	-5	-0.2	5	69	4	5	62	442
200999	-5	-0.2	3	11	16	4	442	104
201000	282	0.5	216	9	73	9	104	88
202801	251	0.3	226	12	9	3	61	61
202802	18	0.6	4	1,350	5	3	61	61
202803	9	-0.2	55	24	4	6	22	22
202804	5	0.4	9	15	15	4	44	44
202805	-5	0.2	7	73	8	2	62	51
202806	-5	-0.2	10	13	5	2	22	22
202807	9	-0.2	22	40	13	2	22	22
202808	8	0.2	8	40	18	-2	9	9
202809	-5	-0.2	148	120	17	4	44	44
202810	8	-0.2	144	69	43	8	26	26
202811	65	1	153	113	38	9	13	13
202812	152	1.6	143	154	65	6	15	15
202813	132	-0.2	167	153	39	8	62	62
202814	98	-0.2	155	35	249	10	2,630	2,630
202815	288	-0.2	349	78	851	9	1,42	1,42
202816	128	1.9	308	285	2,010	11	1,700	1,700
202817	-5	-0.2	3	27	10	4	109	109
202818	-5	-0.2	5	46	9	2	104	104
202819	-5	-0.2	-2	30	8	5	88	88



Lithologic Units

TERTIARY
Intrusive Dykes, Sills and Stocks
TIN1 Basaltic dykes

CRETACEOUS to JURASSIC
Intrusive Dykes, Sills and Stocks
JKIN1 Monzonite to granodiorite: medium grained plagioclase (+/- potassium feldspar) porphyry (Gunning, 1998)

EARLY JURASSIC
Intrusive Dykes, Sills and Stocks
MJnz Monzonite to Syenite: coarse-grained, crowded plagioclase (+/- potassium feldspar) porphyry, plagioclase megacrystic containing euhedral (1cm X 5mm) to megacrystic tabular (3cm X 6cm) feldspar crystals (Kemp, 1995)

UPPER TRIASSIC
Stuhini Group
uTMV Mafic to Felsic Volcanic Rock
uTMV1 Andesitic tuff
uTMV2 Massive andesite flows
uTMV3 Dacitic lapilli tuff
uTMV4 Massive dacitic flows
uTMV5 Rhyolitic flows
uTMS Marine Sedimentary Rock
uTMS1 Calcareous sandstone and siltstone
uTMS2 Calcareous conglomerate
uTMS3 Pebbly siltstone
uTMS4 Limestone
uTMS5 Shale
GOS Vein
Gossan

Rock Sample (grab, float)
Soil Sample
Drill Hole

Geological Symbols
Fault, thrust
Major fault, normal
Outcrop
Claim Outline
IP Grid with Chargeability anomaly (probable)
Bedding
Foliation
Joint
Dyke
Vein
Fold Axis
Fault
Lination

Voigtberg Rock and Soil Geochemistry
Percentile (0-100)

100

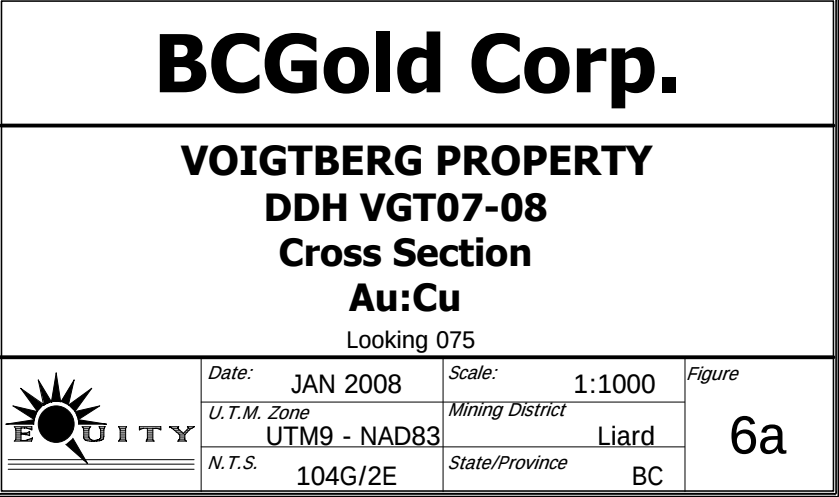
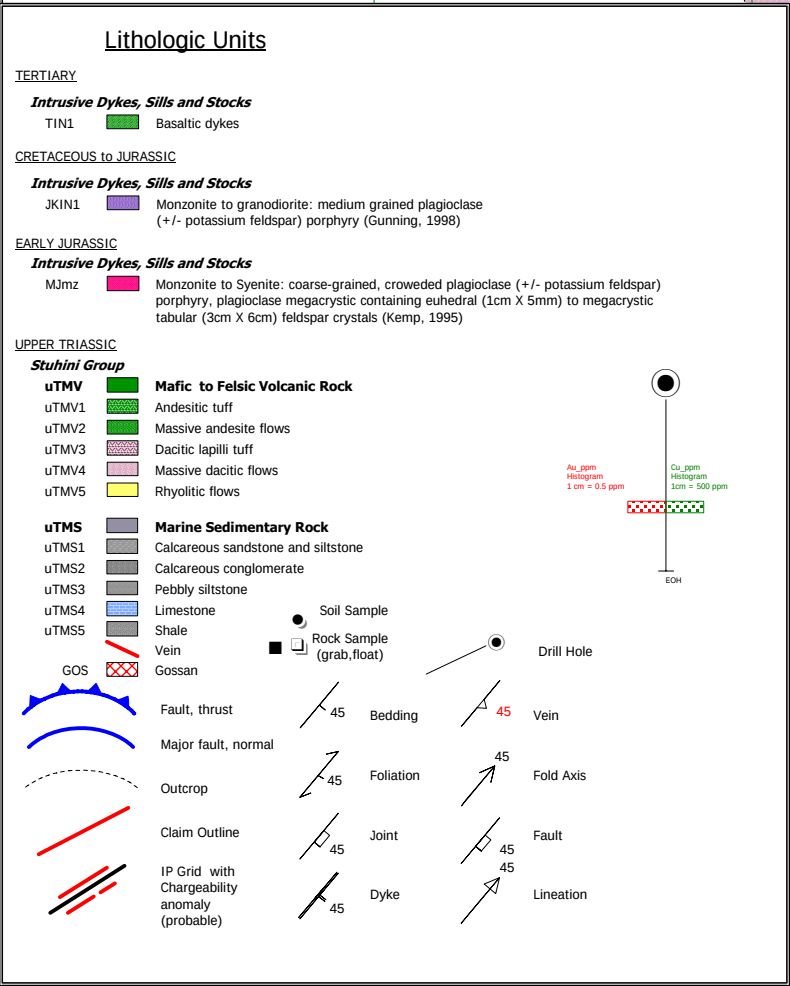
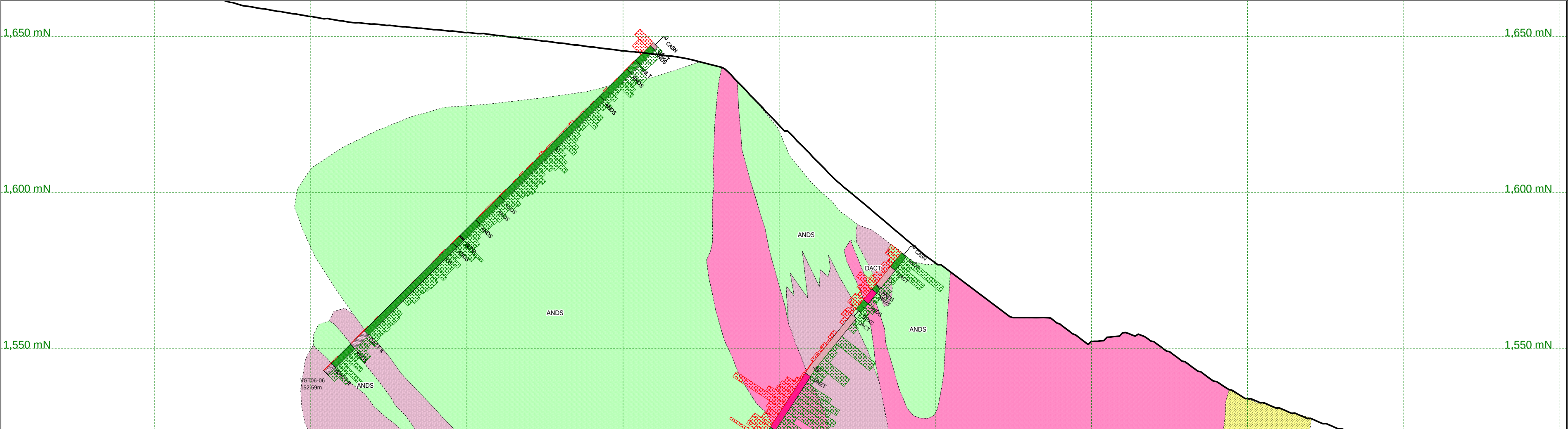
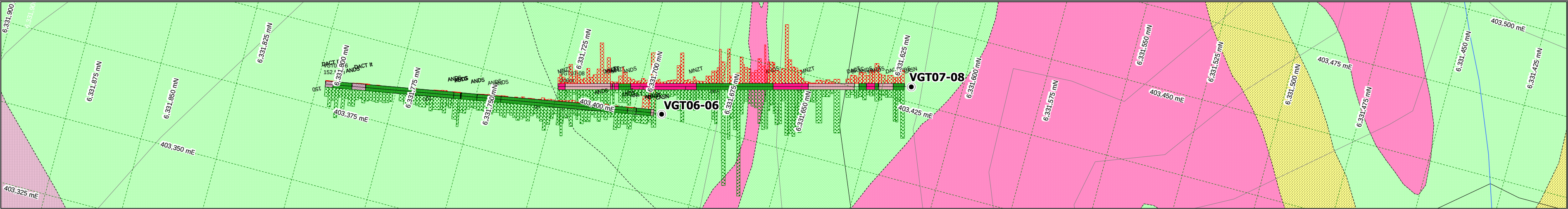
Gold
Copper
Moly

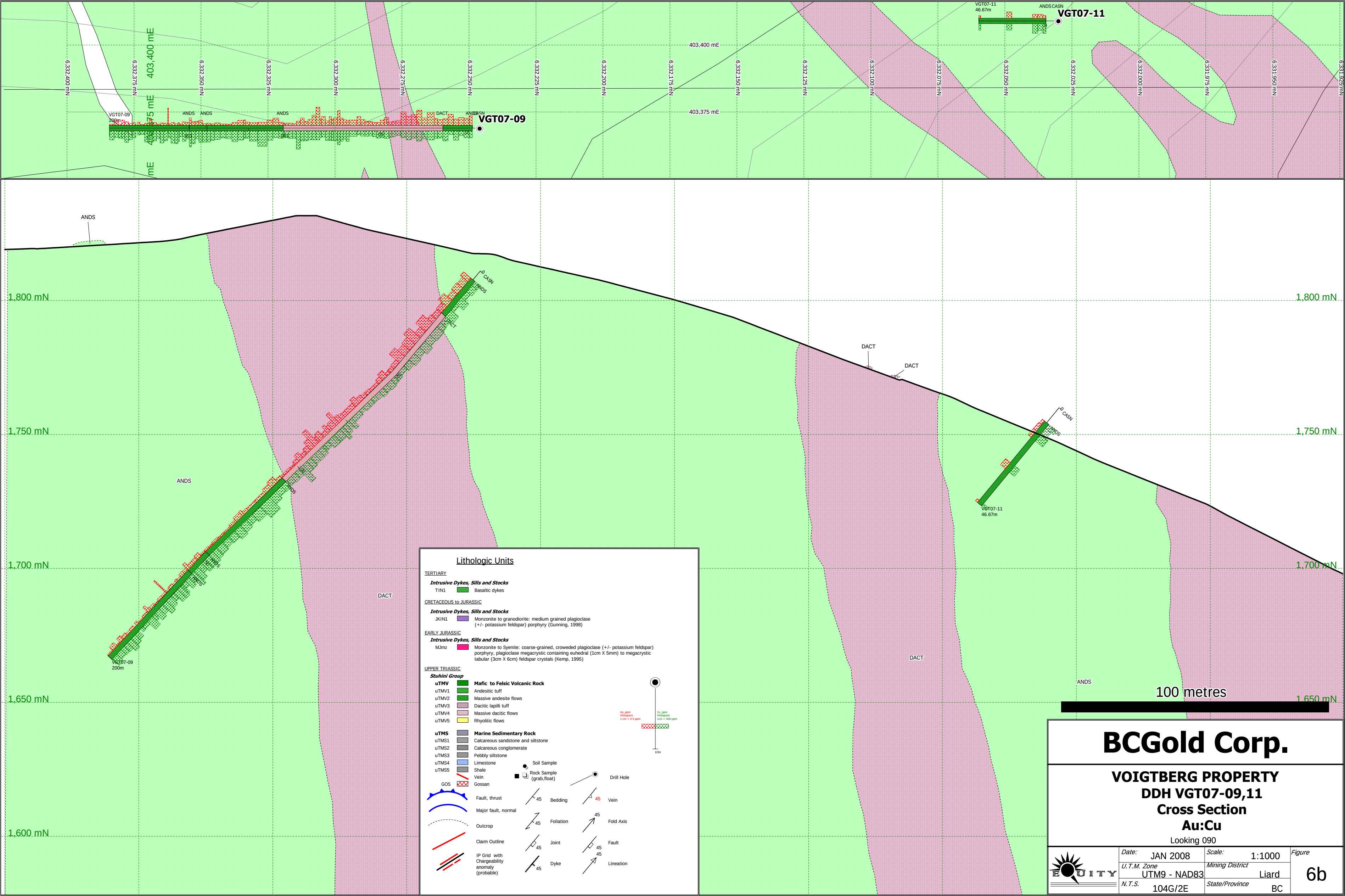
500 metres

BCGold Corporation

VOIGTBERG PROPERTY
Northeast Zone
Property Geology & Soil Geochemistry

Date: FEB 2008	Scale: 1:5,000	Figure
U.T.M. Zone UTM9 - NAD83	Mining District Liard	5d
N.T.S. 104G/2E	State/Province BC	

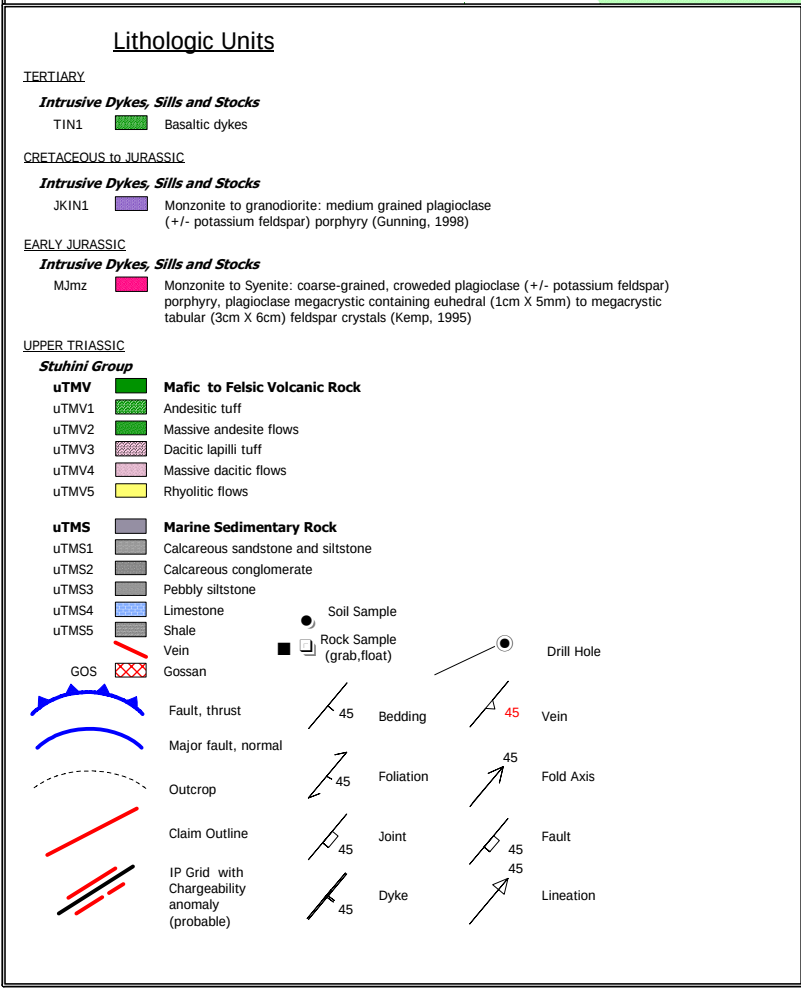
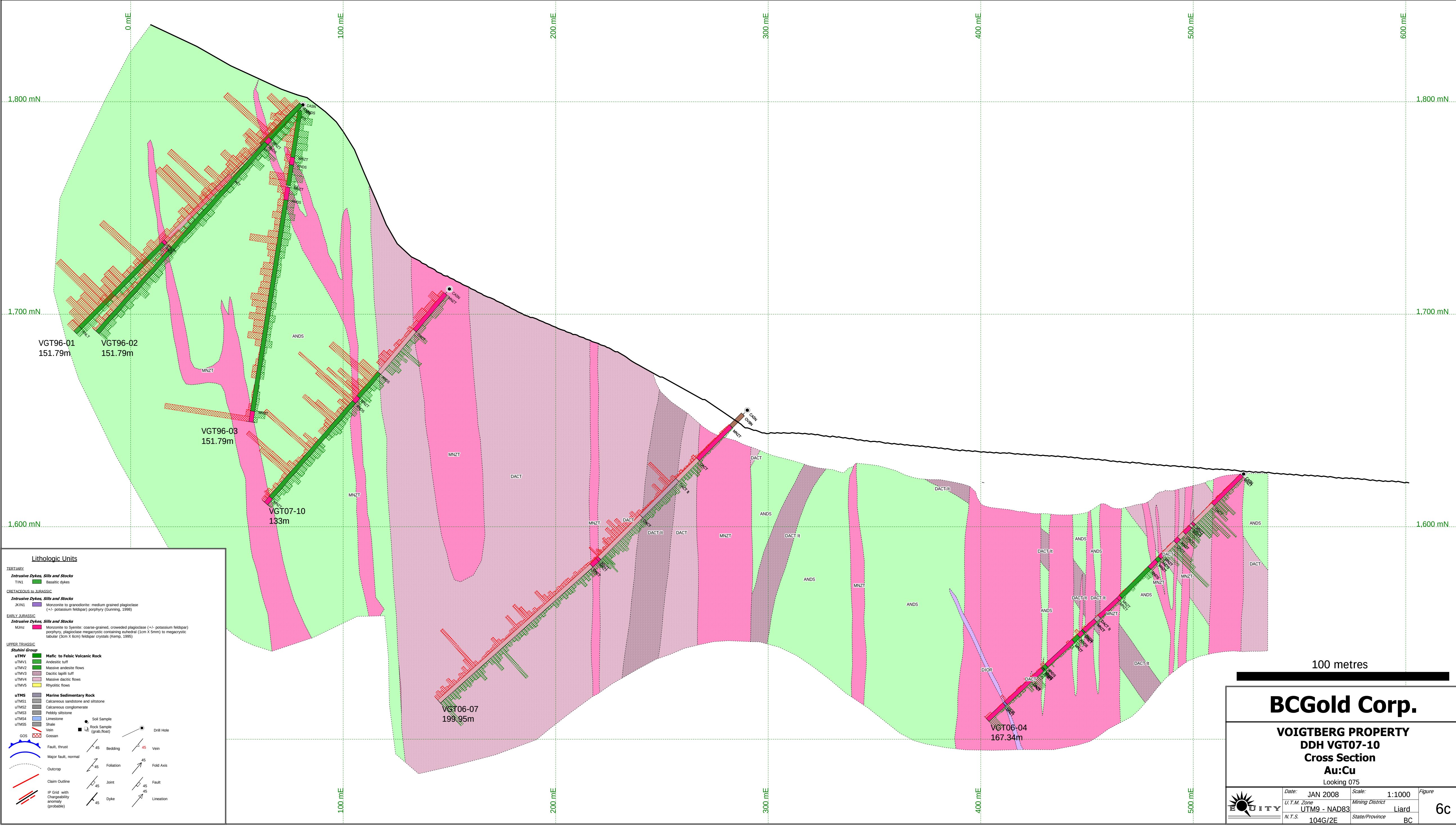
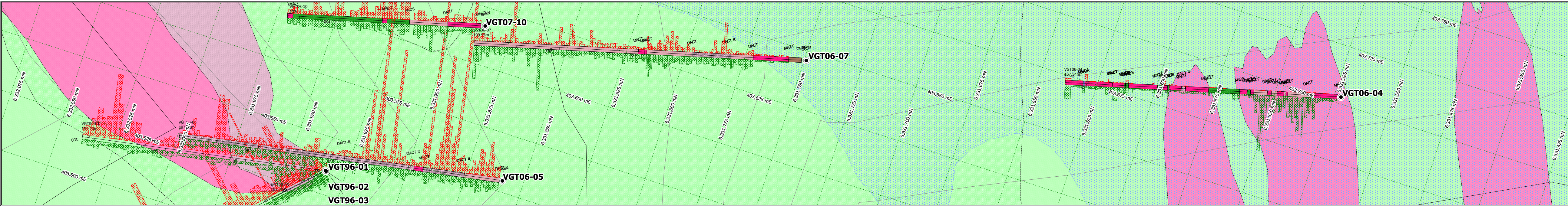




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VOIGTBERG PROPERTY
DDH VGT07-09,11
Cross Section
Au:Cu
Looking 090

	Date:	JAN 2008	Scale:	1:1000	Figure 6b
	U.T.M. Zone	UTM9 - NAD83	Mining District	Liard	
	N.T.S.	104G/2E	State/Province	BC	



100 metres

BCGold Corp.

VOIGTBERG PROPERTY

DDH VGT07-10

Cross Section

Au:Cu

Looking 075

Date: JAN 2008 Scale: 1:1000 Figure

U.T.M. Zone UTM9 - NAD83 Mining District Liard

N.T.S. 104G/2E State/Province BC

6c